Vet
Med

THE

Veterinary Record

FOUNDED BY WILLIAM HUNTING, F.R.C.V.S.

A Weekly Journal for the Profession

VOLUME 62

JANUARY TO DECEMBER

1950

Printed by H. R. Grubb, Ltd., Croydon, for the Publishers,
NATIONAL VETERINARY MEDICAL ASSOCIATION
OF GREAT BRITAIN & IRELAND
36 Gordon Square, London, W.C.1

SF601
V59
v.62

CONCORDANCE OF PAGES WITH ISSUES

[This concordance enables the reader to determine at a glance the date and serial number of the issue of the "Veterinary Record" which contains the required page reference.]

Pages	*Date of Issue*		*No.*
1–10	January	7th	1
11–26	"	14th	2
27–38	"	21st	3
39–54	"	28th	4
55–66	February	4th	5
67–82	"	11th	6
83–102	"	18th	7
103–114	"	25th	8
115–126	March	4th	9
127–142	"	11th	10
143–162	"	18th	11
163–178	"	25th	12
179–198	April	1st	13
199–218	"	8th	14
219–234	"	15th	15
235–250	"	22nd	16
251–264	"	29th	17
265–282	May	6th	18
283–298	"	13th	19
299–310	"	20th	20
311–324	"	27th	21
325–340	June	3rd	22
341–350	"	10th	23
351–360	"	17th	24
361–376	"	24th	25
377–388	July	1st	26
389–402	July	8th	27
403–416	"	15th	28
417–428	"	22nd	29
429–448	"	29th	30
449–464	August	5th	31
465–476	"	12th	32
477–492	"	19th	33
493–514	"	26th	34
515–526	September	2nd	35
527–538	"	9th	36
539–550	"	16th	37
551–570	"	23rd	38
571–588	"	30th	39
589–602	October	7th	40
603–608	"	14th	41
609–612	"	21st	42
613–616	"	28th	43
617–620	November	4th	44
621–634	"	11th	45
635–696	"	18th	46
697–716	"	25th	47
717–736	December	2nd	48
737–770	"	9th	49
771–796	"	16th	50
797–822	"	23rd	51
823–848	"	30th	52

THE VETERINARY RECORD

Index to Subjects : January to December, 1950

PAGE

Abattoirs, Ministry model 602
Abdomen, Opening and closing the, J. Hickman 132
Abomasitis, Traumatic, D. Campbell 761
Abomasum, A case of displacement of the bovine, E. J. H. Ford 763
Abortion, contagious, Vaccination against 52, 195
—— in the bovine (other than *Brucella abortus* infection), The control of (Gould, G. N.) [Abs.] 334
——, enzootic, in ewes: An investigation into the naturally occurring disease, Annie I. Littlejohn 571
——, —— ——: I.—Transmission of the disease, J. T. Stamp, A. D. McEwen, J. A. A. Watt, and D. I. Nisbet 251
—— in sheep, Tick-borne fever as a cause of, Annie I. Littlejohn 577
——, nutritional, and stillbirths in Victorian (N.S.W.) pigs (Pullen, E. M.) [Abs.] 534
Abortus, Brucella, Strain 19, A comparison of the immunity produced in cattle by the inoculation of, intradermally, intracaudally and subcutaneously, A. McDiarmid ... 361
—— —— —— vaccine, The occurrence of *Vibrio foetus* in aborted material derived from cases inoculated with, W. R. Wilson and A. McDiarmid 589
Acetonaemia, bovine, Treatment of by the subcutaneous injection of magnesium sulphate, H. Burrow and E. Fordham Lewis 510
——, ——, Isopropyl alcohol in cows suffering from ... 813
——, The clinical syndrome known as 839
Actinomycosis, Bovine 569
—— in the dog, Contribution to the study of (Goret, P., & Joubert, L.) [Abs.] 304
Advertising, Testimonial 550
Aetiology of infective diseases, The recognition of subsidiary factors in the (Lovell, R.) [Abs.] 357
Africa, Technical co-operation in 53
Agene treatment of flour: Discontinuance recommended but a public assurance given 64
Agenised flour 174
Agricultural Research Council appointments 447
—— —— ——: The work of the, during 1949 [Abs.] ... 357
Agriculture: Air transport and insects of agricultural importance 9
—— —— veterinary service for Western New South Wales 359
—— "British standards" in, New 210
——, Dangerous insecticides in 476
——, Ministry of: Changes of designation in veterinary staff of 246
Allergists, British Association of 475
American College of Veterinary Pathologists, The ... 247
Amputation, high, of the limb of a bitch following neoplastic destruction of the tibia, W. Henderson 332
An old disease in a new role, T. Treacy 387

Anaesthesia:
A mixture of β-naphthoxyethanol with thiabarbitone ("Anavenol"-K) as an anaesthetic in farm animals, W. T. Harrow 507
An improved form of "Anavenol"—"Anavenol"-K; The combination of β-naphthoxyethanol with thialbarbituric ("Kemithal") acid, H. B. Parry 505
β-naphthoxyethanol suspensions "Anavenol"; A short-acting anaesthetic for the horse, H. B. Parry ... 500, 550
J. Pickup 526
Clinical observations on thiobarbiturate anaesthesia in sheep (Titchen, D. A., Steel, J. D., & Hamilton, F. J.) [Abs.] 409
Ethyl chloride in veterinary anaesthesia, E. O. Longley 152
Intravenous ether for general anaesthesia in the horse, E. O. Longley 30
Thiopentone (pentothal sodium) as a general anaesthetic in the horse, E. O. Longley 17, 82
W. M. Henderson and J. B. Brooksby 38, 101
F. G. Waddington 101
Trilene anaesthesia in small-animal surgery, Joan O. Joshua 191
Anastomosis of the intestine in the dog, Pamela M. Reynolds 310
Angler, Capt. E. F., Death of 138
An appreciation, W. L. 138
A further appreciation, W. P. G. 158
Animal attendants, Congress of 30
—— behaviour, Mr. J. E. Johnson's case and, A. Brownlee 125
—— carcases, disposal of: Report of N.V.M.A. Sub-committee on 486
—— Diseases Research Association: Dr. Russell Greig's report on the work of the Moredun Institute ... 475
—— Health Trust appointments (*see* under "Personal")
—— —— ——: Award of Fellowships, Research Training Scholarships, and Studentships 489, 546
—— —— —— luncheon 766
—— —— —— poultry research, £1,000 gift for 6
—— —— —— research, Pig club support for 684
—— —— —— stud managers' course 247
—— —— Trust's canine research programme 158
—— production in Europe 526
Animals, Captive 538
——, laboratory care of, F. Jean Vinter 696
—— ——, Protection of 427
—— of poor persons, Free treatment of: Revised agreement between R.S.P.C.A. and the N.V.M.A. ... 446
——, Slaughter of: (*see* "Slaughter of animals")
——, World Congress for the Protection of 586
Antarctic, Experiences in the, G. S. Beattie 519
Anthrax havoc at mink farm 461
—— outbreak, Serious 460
—— risk, human: demand for stricter regulations for imported goat skins 329
Antihistamine compounds, Pharmacological action of (Burn, J. H.) [Abs.] 712
Antitsetse drug tests in East Africa: "Disappointing results" 320
Antrycide dimethosulphate, The toxicity of, R. J. Garner 314
Aphosphorosis in Ireland, L. B. O'Moore 112
—— in young cows in East Anglia, T. K. Ewer and K. C. Sellers 343
Aspiration biopsy of the liver in cattle, R. J. Garner ... 729
Attestation in Scotland 192
——: Is it a good policy? L. Pitcher 65, 249, 322, 388, 416, 464, 570
W. J. Daniel 102
R. C. G. Hancock 102
R. W. Hillman 102
K. G. Luckin 102
D. Branaghan 140
J. Francis 281, 446
J. W. Rainey ... 282, 388, 492
J. F. D. Tutt 310
S. G. Stewart 339
F. B. Edwards 350
D. D. Ogilvie 360
P. L. le Roux 428
Denis Danby 464
P. Crosfield 476
A. J. Wilsdon 492
R. Mackay Davidson 514
——: Meat condemnation in terms of rations, P. S. Watts 140
Attested herds scheme, The influence of on the local incidence and degree of tuberculosis in slaughtered cows and calves, P. S. Watts and J. Robertson 127
—— —— ——: Statements showing position in each county (quarterly) 197
—— target for the West 65
Aujesky's disease—a sporadic case in a fox terrier bitch, H. G. Lamont and W. A. M. Gordon 596
Austin, Mr. James, Death of: An appreciation 110
Australian meat export industry, the, and long-distance transport of chilled beef (Heywood, R. H.) [Abs.] 305

912238

PAGE

Avian leukosis complex, Studies on the, L. le Q. Darcel 621

Back to barbarism? R. H. Johns 350
Bagshawe, Sir Authur, Death of [Obit.] 217
Baxter, Sir Thomas: commemoration prize awards and A.H.T. Fellowship 294
Bees and goats 523
Behaviour of cattle and other farm animals, The effect of temperature, humidity, air movement and solar radiation on the (Findlay, J. D.) [Abs.] 545
Bell mare system, American, Demonstration of in Greece (*J. R. Army vet. Corps*) [Abs.] 731
Benzene hydrochloride, Studies in the toxicity of, D. W. Jolly and G. J. Kane 377
Biological oscillation, A new (Laue, W.) [Abs.] 316
Blakemore, Professor F., Conferment of honorary degree of Doctor of Veterinary Science, by the University of Liverpool 308, 426
Blending the best thoroughbred stock: M. Boussac's directive for success in racing 846
Blepharitis, canine, Treatment of, E. A. Bunn 588
Bone and joint injuries in the dog, A. C. Shuttleworth ... 365
Book-keeping and accountancy in relation to a veterinary practice, H. W. Steele-Bodger 104
Borna disease, An outbreak of in Tripolitania, J. Southall and F. Razza 4
Bowel oedema in pigs, The treatment of, W. A. Noble and James Frame 544
—— resection in the dog, A case of, F. G. Startup and C. M. Startup 482
Bracken poisoning, its cause and control [Annot.] J. T. E. D. L. Hughes 456 514
British Council, The: Report for 1948-49 156
Correspondence *re*: B. S. Hanson 178
T. Dalling 246
—— Medical Association, Secretary of the 627
—— Museum (Natural History) 736
BRX Club, The 95
Brucella (*see* also under *Abortus, Brucella*)
—— agglutinins in cow's milk, The milking test for detecting (Huddleson, H. F., & Carrillo, C.) [Abs.] ... 22
Brucellosis, chronic, and allergy, G. R. Carter 281
—— in pigs, Thos. Dalling 234
Bull licensing in Scotland 48, 111
——, Mastitis in a, P. Crosfield 532
——, Reproductive failure in the: Its diagnosis and prognosis, D. H. L. Rollinson 527
—— sold for 6,600 guineas 111
—— spermatozoa, Storage of at low temperatures, Audrey U. Smith and C. Polge 115
Bulls, the management of in relation to semen production, Some notes on, D. M. Thomson 480

C. pyogenes infection in the non-lactating udder, The use of penicillin in the prevention of, J. K. L. Pearson ... 166
Calf, the young, The resistance of to disease, A. D. McEwen 83
—— vaccination scheme 195
Cancer research: animal experimentation 623
Canicola fever in Bristol (Campbell, A. G. M., *et al.*) [Abs.] 170
Car sales, Two-year covenant for 767
Carbon tetrachloride dosage in sheep: Some observations on possible chronic toxicity, J. E. N. Sloan 380
Carcinoma of the eye, Hereditary susceptibility to ... 462
Cardiff and its environs (Contributed) 405
"Caricide" in the treatment of *Dirofilaria immitis* in Zanzibar, J. C. Alley 522
Carmichael, Dr. J.: King's Birthday Honours Award of the C.M.G. 359
Cat-scratch and tularaemia 847
Cattle, Cerebrospinal fluid of, Methods of obtaining, and normal values for (Stöckli, A.) [Abs.] 627
—— exports to Scotland: U.F.A.W. survey of Ulster and Eire systems 111
—— industry, Ulster: "Chaotic" effect of milk emphasis 159
—— market congestion hampers veterinary inspection ... 587
—— plague, The prevention of 509
Central Library for Animal Diseases, Mary Raymer ... 224
Cerebellar atrophy in lambs (daft lambs), W. Lyle Stewart 299
Chimpanzee, Atypical pneumonia in a, treated with chloromycetin, N. H. Lambert and J. F. Eustace 354
——, Fatal ingestion of tin-tacks by, A. N. Ormrod ... 408

PAGE

Cirrhosis of the liver, Diet and (Wahi, P. N.) [Abs.] ... 135
Civil defence 767
Clinical instruments in 1850 360
Clinics, Free, W. J. Tarver 428
Clostridium haemolyticum (*Cl. oedematiens* D) infection in a cow, A case of, M. A. Soltys and A. R. Jennings ... 5
Coal Mines (Horses) General Regulations, 1949 123
Cobalt deficiency in Herefordshire and Worcestershire, A. D. Osborne, J. B. E. Patterson and G. A. Treavor 72
Coccidiosis, Biology and control of 522
——, caecal, Sulpha drug treatment for, W. P. Blount ... 415
B. S. Hanson ... 447
J. E. Wilson ... 514
——, experimentally induced caecal in chicks, A comparison of the efficacy of sulphamezathine (sulphadimethylpyrimidine) and sulphaquinoxaline in the control of, S. B. Kendall 381
Cockerels, Stilboestrol implantation in, Kathleen G. R. Kelly and R. S. Roberts 41
Collapsible tubes as unit dose containers (Stevenson, D.) [Abs.] 75
Collection of accurate data on the incidence of disease 8 (*et seq.*)
Correspondence *re*, C. Nicholson and I. B. Munro 218
COLLEGES AND UNIVERSITY SCHOOLS (VETERINARY):
Cambridge (Incorporation) 232
Professor of Veterinary Clinical Studies ... 278
Review by Professor Beveridge 320
Dublin: Annual Prize Distribution 64
Edinburgh: Alumnus Association: Annual dinner of Hong Kong Branch 124
Glasgow: Alumnus Association 387
London: Admission as a School of the University ... 123
Athletic Club (Sports Day) 338
Collinson, Mr. W., Death of 349
A tribute, W. P. 349
Colonial Service, H.M., Danish veterinary surgeons to be employed in 51
Compound feeding-stuffs conference 63
Commonwealth Agricultural Bureaux Conference ... 370, 490
—— —— ——: Review of activities 490
Coryza infectiosa gallinarum Type II (Nelson), The treatment of with streptomycin, L. de Blieck 787
Cows electrocuted 168
Cox, Mr. F. W., Death of [Obit.] 349
Crofts, Mr. C. W., Death of 196
[Obit.] 217
Crowhurst, Mr. Charles, Death of [Obit.] 568
Curley, Mr. W. A., Death of 175
[Obit.] "M. H. W." 196
Cysticercosis, bovine, in Great Britain: Some cases and comments, E. F. McCleery and R. V. Blamire 477
Cysticercus bovis, Harry Priestley 569
David E. Orr 587
E. F. Hardwick 633

Dairy cattle, Fertility in: the management factor, M. Crawford 846
—— ——: Scheme for the control of the major diseases of—Decision to terminate as from October 1st, 1950, accepted by N.V.M.A. 420
—— —— ——: Ministry announcement *re* 488
—— —— ——: Quarterly statements of undertakings notified, etc. 25, 248, 414
—— cow "faced with competition": Importance of the proven bull 486
—— cows, Rationing of 53
—— herd, A healthy: Veterinary contributors to discussion at Guildford 306
Damage by pests 399
Danish Veterinary Congress, 1950: N.V.M.A. President's visit 63
Dangerous Drugs Acts: New regulations 22
Deficiency diseases in domestic animals, Birger Carlstrom 35
Dehorning of adult cattle, E. R. Tazewell and P. R. Greenough 32
W. V. Gray 37
J. McIlwaine 38
A. W. Moss 42
W. Hogarth Scott 44
E. Wilkinson 44
Thomas Lishman 46

PAGE

Demodex, Viability of (*see* under Mange, demodectic)
Diethyl-P-Nitrophenylthiosulphate (E 605): A note on its effect on the cattle tick (*Boophilus m. canestrini*) (Legg, J.) [Abs.] 813
Dermatitis, Contagious pustular ("Orf") of sheep, A case of: identification of the virus (Blakemore, F., Abdussalam, M., & Goldsmith, W. N.) [Abs.] 119
—— —— ——, Observations on (Hart, L., Hayston, J. T., & Keast, J. C.) [Abs.] 119
Diabetes, Longevity record in controlled 633
Dimidium bromide or phenanthridinium 1553: A note on present position, J. Carmichael 257
Dimethylberbeerine hydrochloride (*J. Amer. vet. Ass.*) [Abs.] 245
Disease, Collection of accurate data on the incidence of, 8 (*et seq.*) Correspondence *re*, C. Nicholson and I. B. Munro 218
Disease-infected premises, Addresses of [Weekly entry]
Diseases, animal, inimical to man, The importance to the community of the control of, W. Scott 515
Frank Chambers 517
—— of Animals Bill: Consolation measure 401
—— of domestic animals constituting a hazard to mankind (Boddie, G. F.) [Abs.] 789
—— of man and his flocks 339
Dislocated hip in the cow, C. B. Hart 227
Distaquaine (Procaine penicillin G) suspension: Blood levels in cattle, Mary H. Maclay and A. L. Stannard 579
Distemper (canine), hard pad disease, *Hepatitis contagiosa canis* (Rubarth), etc., C. Wentworth Elam 54
—— ——, Some German experiences in the treatment of the nervous forms of, K. Ullrich 235
—— ——, Treatment of the nervous forms of, H. J. Escott 281
—— —— virus, Experimental studies upon the: Variations in virulence and their relation to the symptomatology and prophylaxis of the disease, P. Goret 67
Docking and Nicking of Horses' Act, 1949 36
Doctors, Advertisements for 263
Dog shows, Veterinary inspection at (*see* "Veterinary inspection at dog shows")
Dogs, Effect on of feeding flour treated with chlorine dioxide and nitrogen trichloride (Nakamura, F. I., & Morris, M. L.) [Abs.] 424
——, Research into the diseases of, Tom Hare 198
S. F. J. Hodgman ... 218
"Doping" in greyhounds (N.V.M.A. Technical Development Committee's enquiry) 263
Drugs, dangerous, in ampoules: the question of "overage" 112
—— ——, Traffic in 769

Ear treatment and aural resection in the dog, W. Henderson and P. S. Lambert 21
Ecological sabotage? 523

Editorials:
An emergency issue ... ... Oct. 14th inset
A second makeshift ... ... Oct. 21st inset
Annual General Meeting, N.V.M.A., The Sixty-eighth ... 650
Bovine infertility 190
Human health and the eradication of tuberculosis ... 483
Quarantine 118
The bovine tuberculosis eradication scheme 581
The Ministry's Veterinary Report 73
Tuberculosis of the udder 243
Eire, New veterinary research station for 688
Election, The General 37
Electricity and the horse, E. O. Longley 158
Electrocution at low voltage, John D. Peele 54
Ivor Hughes 102
C. W. Hume 140
William Tweed 178
—— of unwanted dogs and cats, C. W. Hume 811
Encephalitis, canine, A study on (Koprowski, H., Jervis, G. A., James, T. R., Burkhart, R. L., & Poppensiek, G. C.) [Abs.] 383
English Guernsey Cattle Society's sale for advanced register only 155
—— professors lecture in Hanover 795
Enterohepatitis in turkeys, Observations on the prophylactic value of certain drugs for (McGregor, J. K.) [Abs.] ... 316
Enterotoxaemia in goats, Sulphamezathine in the treatment of, P. L. Shanks 101

PAGE

Equine strongylosis and periodic ophthalmia, The control of with a ration additive (Quin, A. H.) [Abs.] 607
Eruptive condition affecting mucous surfaces in dogs, An, P. L. Builder, Marion J. Freak and Joan O. Joshua ... 796
"Estate cars," Use of for professional purposes 630
Evans' veterinary studentships 52
EXAMINATIONS, DEGREES, ETC.
D.V.Sc. (*M.C.*) (Liv.), Blakemore, F. ... 308, 413, 427
Ph.D. (Camb.), Miss M. C. C. Lobban 844
—— (Cornell), Jones, E. W. 401
—— (Dublin), O'Moore, L. B. 794
—— (Edin.), Young, G. B. 413
—— (Liv.), Holmes, J. R. 426
—— (Lond.), Withers, F. W. 460
—— (Reading), Briggs, C. A. E. 413
R.C.V.S. Fellowship (*see* under R.C.V.S.)
R.C.V.S. Membership (* = Animal Management; † = Pharmacology, etc.)
308*, 319*, 338†, 410, 425, 444, 695*†, 793, 817
University of Edinburgh B.Sc. (Vet. Sci.)
413, Nov. 4th inset, 844
—— of Liverpool M.V.Sc., Jennings, A. R. 844
—— —— —— B.V.Sc. 844
—— of London: Examinations in Veterinary Science
25, 278, 489, 509, 733
Experimentation upon farm animals carried out without the active co-operation of a veterinary surgeon, John C. Grant 322

F. hepatica and the tuberculin reaction, H. Merlen ... 570
Farmland losses from building development 565
Farming knowledge, Exchange of 177
Fasciola, Featuring 511
Fertilisers and Feeding Stuffs Act, 1926: Advisory Committee 602
Fertility in cattle: effect of *post-partum* interval, Joseph Edwards 310
—— of bulls and artificial insemination: Part I.—G. N. Gould; Part II.—G. H. Bennett 495
Field studies, Council for the promotion of 168
Fluoride in drinking water 198
Food, Clean 53
——, Cleaner, H. Williams Smith 736
—— production, domestic, proposed National Council for 294
—— shortage danger, World 211
—— Technology, College of 808
Foot-and-mouth disease in Holland 210
—— —— ——: Investigation and control of: Proposed International centre in England 349, 414
—— —— ——: Need for care in using swill 233
—— —— ——: Observation of the virus of by the electron microscope [Annot.], I. A. G. 108
—— —— —— research station at Pirbright: change in administration 158, 475
Formalin solution as a haemostatic agent (Weir, G. K.) [Abs.] 95
Fowl pest (*see* also under "Newcastle Disease")
—— ——: importation of poultry carcases 402
—— —— in Aberdeenshire 458
—— —— in East Anglia 844
—— —— Order 848
—— —— outbreak in Holland 414
—— ——: Questions in Parliament ... 426, 458, 732
—— plague virus, On the nature of, R. H. A. Merlen ... 796
——, The oestrogenic interruption of broodiness in the (Jaap, R. G., & Godfrey, E. F.) [Abs.] 815
Fracture, Metal plating a, and the treatment of imperfect union, Hamilton Kirk 94
—— of the accessory carpal (pisiform) bone in the racing greyhound and its repair, J. K. Bateman 135
Fractured legs in horses, H. Kirk 847
Fractures, femoral, Intramedullary repair of, in the dog and cat, W. Henderson 168
—— in the racing greyhound, Repair of by modern methods, H. Kirk 786
Frictional acanthosis in Dachshunds, S. Jennings 609
Fungous diseases of animals (contributed) 623

Game protection in Tanganyika 730
Gavin, Major F. C., Death of ... ... Nov. 4th inset [Obit.] 468
Glasgow University Veterinary Medical Association ... 25
Glycerine, Dearer 471

PAGE

Goat, Observations on staphylococcal infections in the dairy, L. R. Hutson ... 274
Goats, Husbandry and Diseases of: Issue of Handbook by the N.V.M.A. ... 123
Gofton, Mr. Arthur, Death of ... 63
Memoir, J. R. G. ... 78
A further appreciation, D. S. R. ... 79
A further tribute, W. H. ... 279
Grants, United States Government research and travel ... 795
Green, Mr. Alfred Ronald, Death of ... 263
[Obit.] ... 308
Green's distemperoid virus, Preliminary note on the cultivation of in fertile hen eggs (Haig, D. A.) [Abs.] ... 135
Guide dogs of the blind ... 307

Hard pad disease, C. E. Woodrow ... 113
L. Guy Anderson ... 160
—— —— ——, An outbreak of assumed, H. Kirk ... 634
—— —— —— in dogs, The use of Amphotropin (Bayer's brand of Hexamine camphorate) in the treatment of, G. T. Wilkinson ... 453
—— —— —— (?), Successful L.-D. vaccine-virus treatment of, H. F. Hebeler ... 213
Hebeler, Mr. Henry F. C.: Election as Hon. Secretary, N.V.M.A. ... 645
Hen eggs, The occurrence of *S. typhi-murium* in, and its implications, J. E. Wilson ... 449
Hepatitis contagiosa canis (Rubarth), T. W. F. Pay ... 551
Joan O. Joshua ... 566
—— —— —— —— in Australia (Whitten, J. H., & Blood, D. C.) [Abs.] ... 35
—— —— —— ——, The occurrence of in Great Britain, R. F. Montgomerie ... 114
J. W. Emslie ... 126
—— of dogs, Viral (Rubarth's disease): I.—Clinical and pathological observations on a spontaneous epidemic, H. B. Parry ... 559
——, Infectious canine (*Hepatitis contagiosa canis* [Rubarth]), T. W. F. Pay ... 551
——, Viral, of dogs (Rubarth's disease): I.—Clinical and pathological observations on a spontaneous epidemic, H. B. Parry ... 559
Herd improvement: planned progeny testing ... 247
Herds clean-up too long delayed ... 111
Hexachlorethane, The fate of in ruminants, R. P. Lee ... 696
Hill Farming Advisory Committee for Scotland, New ... 320
Histoplasma capsolatum infection in a dog (Osebold, J. W.) [Abs.] ... 841
Hodgman, Mr. S. F. J., Election as President, N.V.M.A., 1950-51 ... 642
[Biog.] ... 651
Homoeopathy in the veterinary field, R. C. G. Hancock 476, 514
Geo. H. Wooldridge ... 492
—— —— ——: Meeting in London (suggested formation of Branch of the British Homoeopathic Association) 693
——, Faculty of ... 632
Horse breeding, light, Recovery in ... 402
—— decline, Check in Birmingham Corporation ... 476
—— —— "courts disaster" ... 125
——, heavy, Demand for arrest of decline in the breeding of the ... 765
—— ——, Handling competition ... 441
—— ——, Importance of the ... 125
—— meat business and related matters [Discussion by Central Veterinary Society].
Openers: H. E. Bywater ... 199
H. Amphlett Williams ("The identification of horse flesh") ... 204
General Discussion (Opener, T. L. Wright) ... 207
—— parade, London cart ... 339
—— Show, International ... 65, 427, 447
—— —— ——, The, 1950, H. W. S.-B. ... 585
—— ——, U.S., British success at ... 631
—— Society, British, ... 64, 264
——, The [Edit.] ... 210
—— —— farm: "Folly of pending disappearance" ... 462
"Horseman's Sunday" service at Tattenham ... 565
Horsemen, British, Training for the Olympics ... 808
Horses, British, A note on the history of, in the light of recent investigations, J. G. Speed and M. G. Etherington 624
—— detained in veterinary establishments, Rations for 460, 844
——, Export and slaughter of ... 194, 215, 282
Arthur W. Moss ... 218

PAGE

——, Heavy ... 734
—— —— ——: Report of the Rosebery Committee 139, 211
——, Exportation of (Minimum Values) Order ... 294
House of Commons, Rebuilding of the ... 245
Huskies, Illness in, C. E. Woodrow ... 10
Tom Hare ... 66
Hydrocyanic in pasture plants, H. E. Hornby and J. Robson 1
Hyper-thyroidism, Thiouracil in the treatment of in a dachshund bitch, P. Crosfield ... 545
Hypnotic for clipping the nervous horse, J. F. D. Tutt ... 178
Hypocupraemia of bovines in East Anglia, Conditions associated with, F. Blakemore and J. A. J. Venn ... 756

"Index Veterinarius," J. K. H. Wilde ... 428
Infectious canine hepatitis (*Hepatitis contagiosa canis* [Rubarth]), T. W. F. Pay ... 551
Leon Z. Saunders ... 633
—— necrotic hepatitis ("black disease" of sheep, The identification of *Cl. oedamatiens* and an experimental investigation of its role in the pathogenesis of) (Jamieson, S.) [Abs.] ... 513
Infertility, Bovine—Abstract of papers (A. V. T. & R. W.), R. S. R.:
Bacteriological aspects, R. W. Stableforth ... 187
Changes in the Fallopian tubes of the bovine as a cause of sterility, H. J. Cembrowicz ... 189
Clinical aspects of infertility in the bull, G. H. Arthur ... 189
Diagnosis, epidemiology and control of trichomoniasis, A. E. Pierce and H. P. Harding 188
Fertility levels as ascertained from the statistics of annual production, R. Phillips ... 186
Infertility in a bull in service at an Artificial Insemination Centre, L. E. A. Rowson ... 190
Suppression of oestrus in cattle, J. A. Laing 186
The most prevalent form of infertility among dairy cattle in the Midlands to-day, I. G. Shaw ... 186
Correspondence *re*: K. O'Sullivan ... 249
—— —— [Edit.] ... 190
—— in cattle associated with death of ova at early stages after fertilisation (Laing, J. A.) [Abs.] ... 170
—— —— ——, with special reference to trichomoniasis (Symposium, N. Wales Division, N.V.M.A.):
I.—The clinical aspect and diagnosis of trichomoniasis, with particular reference to the bull, H. P. Harding ... 539
II.—The host-parasite relationship between the female bovine and *Trichomonas foetus*, A. E. Pierce ... 541
III.—Infertility from the point of view of an officer in charge of an Artificial Insemination Centre, D. M. Thomson ... 541
IV.—Non-specific infertility, W. Bertram Shaw 542
Summing-up of discussion, Thos. Dalling ... 544
—— —— ——, *Vibrio foetus* and, R. W. Hartley and C. A. Foden ... 416
R. W. Hartley ... 442
Insecticides, Danger from the newer ... 176
—— —— ——: Enquiry by working party ... 421
INSEMINATION, ARTIFICIAL:
—— —— centre at York ... 402
—— ——: Development of by the Milk Marketing Board 415
—— ——: Export of cattle semen opposed ... 290
—— ——, Fertility of bulls and: Part I.—G. N. Gould; Part II.—G. H. Bennett ... 493
—— —— in Kenya, Practical aspects of, C. R. Holmes ... 2
—— —— in Scotland ... 840
—— ——, M.M.B. breeding centres membership ... 176
—— —— N.V.M.A. Conference on ... 549, 630
—— —— of cattle: A review of the work of the Reading Cattle Breeding Centre, October 1st, 1944, to September 30th, 1948, D. L. Stewart ... 389
—— —— service from "colour-marking" beef bulls ... 152
—— ——: The use of boiled milk as a diluent for semen 756

Instruments and Appliances, New:

A battery handle and adaptor for the Coldite bovine vaginascope, C. A. V. Barker ... 423
A new retractor-director, F. J. Milne ... 22
Simplified version of the Kirschner-Ehmer splint, A. Noel Ormrod ... 616

PAGE

Insurance, Examination of animals proposed for ... 23, 51
International and N.V.M.A. Veterinary Congresses, London, 1949: Commemorative Pictorial Souvenir 318
Intravenous technique in the large animals, Improved, E. O. Longley 15

James Clark Memorial, J. Russell Greig 588
—— —— —— ceremony, Canongate Kirkyard, October 18th, 1950 790
Johne's disease in cattle, K. D. Downham 441
—— ——, Some observations on, R. H. Smythe 429
A. Leslie Sheather ... 492
—— —— —— ——: A further note on the examination of faecal samples, G. J. Christie 438
Johnston, Mr. Alexander (of Fyvie), Death of 81
[Obit.] 99
A personal appreciation, George Dykes ... 100
Joint Measurement Scheme 318
Joshua, Miss Joan Olive: First woman Fellow of the Royal College of Veterinary Surgeons 261

Ketosis of dairy cows housed in courts and in byres, A. D. McEwen and Angus Foggie 271
Kitten's conquest of the Matterhorn 519

Laboratory Animals Bureau Congress 291
Land reclamation, Further aspects of, Moses Griffith ... 157
Laparotomy in the horse (Donald, D. E.) [Abs.] 567
Leeches, Deaths in young ducklings associated with infestations of the nasal cavity with, D. H. L. Rollinson, K. N. Soliman and K. H. Mann 225
Legal Notes:
Accident on highway caused by straying animal 845
Animal Defence Society loses income tax exemption claim 631
Blacksmith's appeal against restrictions on hours of work 735
"Cattle in various stages of malnutrition" 263
Cattle poisoned by red lead paint: damages awarded ... 198
Cows with in-growing horns 158
Cruelty to sheep in transit 321
Deaths of pigs following administration of worm powder: Judgment for veterinary surgeons 233
Dehorning by ligature without an anaesthetic 360
Docking and Nicking of Horses Act (prosecutions) 600, 631
Failure of claim for damages for alleged negligence ... 794
Failure to report tuberculous cow 374
False teeth in cows: imprisonment for cattle dealer ... 52
"Homesickness" in the bull 124
Horse injured: £309 damages 399
Hounds suffocated in horse-box 631, 794
"Operations" in the bar 734
Posed as a veterinary surgeon 845
Sale of dirty milk 601
Sale of veterinary practices in France 537
Town and Country Planning Acts 375
Underfed animals allegation at Hereford 460
Unqualified practice: First conviction under the Veterinary Surgeons Act, 1948 280
Wild birds, Alleged traffic in 297
Veterinary Council of Ireland 601
Veterinary surgeon's kennels: Interdiction against use during the summer months 64
Leptospira canicola and *Leptospira icterohaemorrhagiae*, Effect of aureomycin on, *in vitro*, and experimental carrier studies (Brunner, K. T., & Meyer, K. F.) [Abs.] ... 627
—— *icterohaemorrhagiae* infection, in the calf, H. I. Field and K. C. Sellers 311
Leptospirosis, Bovine (Sutherland, A. K., Simmonds J. C., & Kenny, G. C.) [Abs.] 215
——: Clinical appearance of the dog with disease caused by *Leptospira canicola* with brief reference to diagnosis, Ian M. Lauder 395
—— in cattle (Baker, J. A., & Little, R. B.) [Abs.] 841
—— in the dog, Ian Lauder 550
Leukosis complex, The attempted treatment of by intraperitoneal injection of potassium iodide, H. H. Holman and Audrey J. Wells 422
Ernest Gray 526
Lindsay, The late Mr. P. T., An appreciation, E. R. C. 9
A personal appreciation, H. W. S.-B. 24
Litter recording proposals 7
—— testing in Scotland 305

PAGE

Livestock Export Group 112, 159, 462, 491, 847
—— import regulations, Overseas changes in 2, 58
Louping-ill meningo-encephalitis: A further case and a serological survey (Lawson, J. H., *et al.*) [Abs.] ... 61

MacRae, Mr. D. E., Death of [Obit.] 768
Malaria control campaign in Cyprus, Success of 154
Mange, Cattle, G. C. Brander 370
——, demodectic: The variability of *demodex* on transference from skin to slide, T. W. Hogarth ... 101
Ian M. Lauder 114
Gordon C. Knight ... 140
—— in cattle (Ministry of Agriculture communication) ... 338
—— in dairy cattle, Diagnosis and control of (Schwardt, H. H.) [Abs.] 275
Mastitis, Bovine, Actions (*in vitro*) of chloramphenicol and 4-4'- Diaminodiphenylsulphone on bacteria associated with (Faustini, S.) [Abs.] 607
—— —— [Technical Development Committee, N.V.M.A.] 163
—— ——, Herd control of, Thos. F. Wilkinson and P. Robinson 847
—— ——, Some remarks on, with particular reference to acute interstitial mastitis due to strains of *Staphylococcus aureus*, P. Turnbull 255
—— ——: The case for direct injection of penicillin into the udder, Hugh Begg and W. A. Whiteford ... 103
—— ——, with particular regard to eradication of *Streptococcus agalactiae*, A. W. Stableforth 219
—— in a bull, P. Crosfield 533
—— medication in relation to public health, R. W. Johnston 322
D. D. Ogilvie ... 360
——, penicillin resistant, The treatment of, J. Carmichael, Mary H. Maclay, A. V. Johnson and Luba Johnson 55
——, *Streptococcus agalactiae*, Procaine penicillin and interrupted penicillin treatment in, D. L. Hughes, G. J. Christie and R. K. Farmer 11
Mathieson, Mr. Neil Hughes, Appointment of as Liaison Secretary, N.V.M.A. 307
Meat in America 848
—— industry's contribution to science, the, Some aspects of, D. J. Anthony 354
——, Poor quality 316
—— production in Great Britain, C. S. M. Hopkirk ... 100
McChlery, Mr. A. S., Death of [Obit.] 716
Medical Bill, The, ... 196, 293
—— G.P., Post-graduate education of the 384
—— journals, New 298
—— Research Council: New institution at Mill Hill opened by the King 264, 295
Medicine spoons 165
Metal plating a fracture and the treatment of imperfect union, Hamilton Kirk 94
Membership percentages of the B.M.A. and the N.V.M.A. 9
Milk: B.M.A. Public Health Committee and the Joint Report on 9
——, Heat treatment of 297
—— Marketing Board: Appointment of members by Milk Marketing Board 446
—— —— ——: Panel of Honorary Scientific Consultants joined by Dr. J. A. Laing 337
—— —— Scheme, 1933, Amendment of 402
—— mixing "unfortunate": Scottish Health Officer's comments 52
——, Persistence of penicillin in, J. Zweig 53
—— recording and breeding movement, The, Joseph Edwards 601
—— —— progress in Scotland 415
—— records, National 297
—— (Special Designation) (Amendment) Regulations ... 190
—— test change: new rules for repeat samples 124
——, Variations in the bactericidal and bacteriostatic properties of, A. D. McEwen and Marjory B. White ... 27
Minett, Dr. F. C., Appointment as Director, Animal Health Trust Bovine Research Station 513, 524
Mineral requirements of small animals, Some aspects of the, D. G. Harvey 143
Moniliasis in turkeys in Great Britain, J. E. Wilson ... 26
Monkey, Obstructed cheek-pouch in a, H. D. Mills ... 356
Monkeys, A note on the technique of intravenous injection in, H. D. Mills 356
Moody, Mr. William John, Death of [Obit.] 374
Moredun Institute, New secretary for 334

PAGE
Motion-study technique applied to medical practice 558
Motor cars, Priority delivery of new 387
Mullerian Duct remnants in the bull, D. H. L. Rollinson 107

Naismith, Mr. J. A. A., Death of 599
An appreciation, J. Spreull 630
National Farmers' Union leadership 81
—— Institute for Medical Research: Royal inauguration of new centre 264, 295
—— Service Acts: Veterinary students completing full-time studies in 1950 279
—— Veterinary Benevolent and Mutual Defence Society: Annual general meeting at Manchester 386
Meeting of Council 816

National Veterinary Medical Association of Great Britain and Ireland:

[For additional items (Meetings of Council, Branch and Divisional Meetings, etc.) *see* Index to *Supplement*.]
ANNUAL GENERAL MEETING AND CONGRESS — SIXTY-EIGHTH:
Annual General Meeting 641
[Edit.] 650
Attendance List 637
Cardiff and its environs (contributed) 405
Closing meeting (Adjourned Annual General Meeting) 688
Dalrymple-Champneys Cup and Medal: Presentation to Mr. E. Brayley Reynolds 642
Demonstrations:
Anaesthesia, general, in small animals, and a method of positive pressure ventilation of the lungs, G. C. Knight and C. R. Wood 676
——, regional, in small animals, J. S. A. Spreull ... 676
——, regional, in the bovine, C. Formston and L. C. Vaughan 676
"Anavenol" K, W. T. Harrow 678
Chloralhydrate narcosis in the bovine, C. Formston and L. C. Vaughan 676
Teat surgery, J. W. Burgess 676
The examination of the horse for soundness, Brigadier E. S. W. Peatt 674
Election of Mr. S. F. J. Hodgman as President for 1950-51 642
Induction as President 691
—— —— Mr. A. J. Wright as President-Elect ... 645
—— —— Mr. Henry F. C. Hebeler as Hon. Secretary 645
Notes *re* 536, 546
Papers presented to the:
No. 1.—Factors influencing herd fertility in cattle, S. L. Hignett 651
Openers of discussion: D. W. Deas 663
J. Smith 665
H. W. Steele-Bodger 667
General discussion 669
No. 2.—Clinical diagnosis of diseases of the abdomen of the dog and cat, J. S. J. Lauder 697
Openers of discussion: Olwen D. James ... 704
J. W. Heney 705
General discussion 706
No. 3.—Some pig diseases, H. G. Lamont, D. Luke and W. A. M. Gordon 737
Openers of discussion: P. L. Shanks 743
J. F. Timoney, "Oedema disease of swine" ... 748
No. 4.—Deficiency diseases, particularly acetonaemia in cattle, Birger Carlström 717
Openers of discussion: R. H. Smythe ... 722
J. R. Holmes ... 724
General discussion 725
No. 5.—Symposium on the diseases of sheep:
Recent investigations into certain diseases of sheep, S. Jamieson 772
Some observations on disease in hill and lowland flocks, L. E. Hughes 774
"Breid" and the complexity of its nature, W. T. Rowlands 777
Abortion in sheep, J. T. Stamp 778
Openers of discussion: D. E. Davies ... 780
D. R. Allen 781
General discussion 782
Correspondence: S. Jamieson 822
No. 6.—Diseases of the stomach of the adult ruminant, Hugh Begg 797
Openers of discussion: A. T. Morgan ... 80
D. G. E. Davies ... 80
General discussion 80
No. 7.—Strain 19 and the control of brucellosis, J. R. Lawson 82
Openers of discussion: A. J. Wright ... 83
L. G. Anderson ... 83
General discussion 83
Opening Meeting: Civic Welcome by the Lord Mayor of Cardiff 63
Presentation to Mr. J. H. M. Hughes (Hon. Local Secretary) 68
Presentation to Mr. F. Knight (Twenty-five years as General Secretary) 64
Presidential Address, John W. Bruford 63
Social events:
Civic reception 67
President's reception 68
Ladies' Guild Dance 68
South Wales Division's "At Home" 67
The Annual Dinner 68
Bowls and golf competitions 68
Tributes from overseas delegates 68
Veterinary Exhibition 68
Votes of Thanks 68
Conference on Artificial Insemination 54
Council: Summaries of proceedings 122, 45
Handbook, 1950, Issue of 51
Handbook on the Handling of Animals and First Aid, Issue of 69
Joint Committee with the British Medical Association .. 27
Liaison Secretary: Appointment of Mr. N. H. Mathieson as 30
Percentage membership of the ... ...
Policy, Representation in formation of, Connie M. Ford 57
President's visit to Denmark 58
Report of sub-committee on disposal of animal carcases 48
"Native," C. A. McGaughey 34
Neilsen, Professor Folmer, Death of 13
[Memoir] H. W. Steele-Bodger and S. L. Hignett 23
A further tribute, L. P. Pugh 24
New Zealand Veterinary Club Practice appointments, R. W. Roach 31
New Zealand's food export drive promises being fulfilled 10
Newcastle disease in a gannet (*Sula bassana*): A preliminary note, J. E. Wilson 3
—— —— immunisation with live virus (Beaudette, F. R., Bivins, J. A., & Miller, Barbara) [Abs.] 13
—— ——, Vaccine against: Ministry's comment on Press statement 36
—— —— —— ——, An inactivated (Doyle, T. M., & Wright, E. C.) [Abs.] 71
News from overseas 13
Niven, Mr. Alexander, Death of ... ...
A tribute, J. A. 2
No foot—No horse, G. K. Shaw 234, 3
J. T. Edwards 25
J. C. Taylor 37
Nutrition, The animal protein factor in poultry and swine (Lederle Laboratories publication) [Abs.] 52

Obstetrics, Veterinary 7
Oedema disease of swine, Experimental reproduction of, J. F. Timoney 19
Oestrogens, The seasonal and species distribution of in British pasture plants, J. T. E. 29
Official work: A Ministry requirement, J. F. D. Tutt 634, 77
John D. Parkinson 7
Openings in the veterinary profession for new graduates: Issue of N.V.M.A. leaflet 31
Orthobiotic serum, Initial therapeutic trials with in the dog (Bardach, M., Goret, P., Mery, F., & Mutel, A.) [Abs.] 34
Osteomyelitis in the dog, Treatment of, L. Guy Anderson 24
Overseas mail: Vacancies and "the period of application," James O. Wilson 23

Panda, giant, Death of 12
Panting in cattle (Minett, F. C.) [Abs.] 22
C. M. Stewart 280, 3

PAGE

Panting in cattle—*continued*
Sir Frank Ware ... 298
F. C. Minett ... 309
A. Brownlee ... 340
R. Daubney ... 375
—— —— —— and dry coat in horses, C. M. Stewart ... 350
—— —— —— —— non-sweating in horses, T. F. Arnold 463
Papers, scientific, Preparation of ... 591

Parasitology :
A new taeniacide for dogs, K. J. Biddis ... 841
A technique for the collection of nematodes from the alimentary tract of sheep (Hamilton, F. J.) [Abs.] ... 841
"Hetrazan" in the treatment of *Dirofilaria immitis* (Leidy, 1856), H. S. Purchase ... 34
Intestinal parasites of man in Great Britain ... 549
Methods for egg counts and larval cultures for Strongyles infesting cattle (Roberts, F. S. H., & O'Sullivan, P. J.) [Abs.] ... 712
Notes on some parasites of camels (*Camelus dromedarius*) in the Sudan, J. S. Steward ... 835
Phenothiazine for the control of helminthiasis in lambs: monthly dosing compared with a phenothiazine salt mixture (Pollard, E. P., Owen, R. W., & Evans, G. O.) [Abs.] ... 258
——, The anthelmintic effect of, administered in small daily doses to lambs bearing heavy infestations of *Haemonchus contortus* (Page, K. W.) [Abs.] ... 258
Trichostrongylosis and haemonchosis in the camel: their recognition and response to phenothiazine, J. S. Steward 837
Verminous parasites and veterinary practice, E. L. Taylor 613
Pasteurisation, Value of ... 846
Penberthy, John, Prescience of, Thos. Lishman ... 588
Penhale, Mr. J. M. L., Death of ... 568
A tribute, R. R. W. ... 568
An appreciation, A. V. F. ... 585
Penicillin, A veterinary contribution in the early stages of the development of ... 734
——, direct injection of into the udder, The case for, Hugh Begg and W. A. Whiteford ... 103
——, Immunisation of mice against group B streptococci by the intraperitoneal inoculation of living cultures combined with (Pattison, I. H.) [Abs.] ... 474
—— in the control of swine erysipelas, J. C. Taylor ... 38
—— in the prevention of *C. pyogenes* infection of the non-lactating udder, The use of, J. K. L. Pearson ... 166
—— in the treatment of tetanus in a horse, J. K. H. Wilde, J. Robson and T. Lwebandiza ... 345
——, Persistence of in the bovine udder, S. L. Hignett ... 37
——: Results of tests of newer preparations and of treatment of staphylococcal infections of the bovine udder with (Murnane, D.) [Abs.] ... 398
——, Sale of in Northern Ireland ... 632
——, Sensitivity to ... 274
—— Serum levels of in cattle (Doll, E. R., Wallace, M. E., & Newton, A. C.) [Abs.] ... 442
Persistent foramen ovale, D. J. Anthony ... 34

Personal :
Appointments:
Banks, P. N. (Veterinary Officer, Tanganyika) ... 489
Black, J. G. (Veterinary Officer, N. Rhodesia) ... 51
Brown, R. H. (Veterinary Officer, Kenya) ... 386
Burdin, B. L. (Veterinary Research Officer, Kenya) ... 51
Callear, J. F. F. (Veterinary Officer, British Guiana) 51
Chandler, R. L. (Junior Veterinary Officer, West African Institute for Trypanosomiasis Research) ... 81
Clifford, H. R. (Veterinary Officer, Uganda) ... 196
Coyle, T. J. (Veterinary Officer, Uganda) ... 110
Daniel, T. W. (Animal Health Trust organiser for Suffolk) ... 529
Docker, T. M. (Veterinary Officer, Tanganyika) ... 733
Ewer, T. K. (Chair of Animal Husbandry in the University of Queensland) ... 63, 475, 489
Gillies, R. J. M. (Veterinary Officer, N. Rhodesia) ... 446
Littlewood, H. K. (Assistant Director of Veterinary Services, Nigeria) ... 196
Lobban, Miss M. C. (Fellow of Newnham College and Director of Studies) ... 513
Makinson, J. B. (Vitamins, Ltd., research station) ... 844
Mathieson, N. H. (Liaison Secretary, N.V.M.A.) ... 307
McLean, J. B. (Veterinary Officer, Uganda) ... 844
McKay, W. (Spillers Advisory Organisation) ... 232
McGregor, D. E. (Senior Veterinary Officer, Nigeria) 446
Milne, F. J. (Department of Surgery, Colorado College) 216
Minett, F. C. (Director, A.H.T. Bovine Research Station) ... 513, 524
Nixon, K. (Veterinary Officer, Nigeria) ... 446
Pinniger, R. S. (Veterinary Officer, Tanganyika) ... 568
Prescott, J. G. (Veterinary Research Officer, Tanganyika) ... 196
Proverbs, M. B. (Veterinary Officer, Barbados) ... 51
Pugh, L. (Professorship of Veterinary Clinical Studies in the University of Cambridge) ... 427
Rix, J. C. (Veterinary Officer, Hong Kong) ... 110
Scott, G. R. (Veterinary Research Officer, Kenya) ... 110
Sheriff, D. (Veterinary Officer, Kenya) ... 51
Smith, J. A. B. (Director, Hannah Dairy Research Institute) ... 768
Stableforth, A. W. (Director, Ministry of Agriculture Veterinary Laboratory, New Haw, Weybridge) ... 193
Taylor, J. I. (Chief Veterinary Research Officer, Uganda) ... 844
Thorold, P. W. (Veterinary Research Officer, Kenya) 51
Uruski, W. (Senior Veterinary Officer, British Guiana) 51
Walther, A. L. (B.O.C.M.) ... 232
Ware, Sir Frank (Consultant Veterinarian to the Canadian Government) ... 733
Watts, P. S. (Head of Veterinary Section of Institute of Medical and Veterinary Science, Adelaide) ... 336
White, E. G. (William Prescott Chair of Veterinary Preventive Medicine in the University of Liverpool) 216
Willder, R. G. (Veterinary Officer, Nigeria) ... 446
Births:
Allen, G. S., 110; Arnold, G. K., 474; Arnold, R. A., 716; Arthur, G. H., 695; Arthur, J. H., Nov. 4th inset; Balls, D., 23; Bell, R. L., 294; Bownass, R. C., 100; Brander, G. C., 733; Brown, A. C. L., 549; Brown, Alan R., 138; Brown, P., 138; Bryson, R. W., 549; Builder, P., 446; Bullen, J. J., 157; Calder, J., 63; Carmichael, M. A., 157; Clifford, H. R., 524; Cooke, R. G. T., 474; Cotchin, E., 733; Creasey, R. F., 63; Crerar, W., 196; Cross, B. A., 426; Crowther, R. W., 8; Cruickshanks, J., 401; Daniel, W., 401; Downe, C. H., 537; Drew-Smythe, R., 630; Eden, B., 307; Farrell, A. V., 794; Fletcher, J. T., 123; Frappell, J. P., 413; Fraser, J. R., 9; Grater, G., 23; Green, R., 217; Greenough, P. R., 319; Grey, J. R., 460; Hargreaves, P., 196; Harrison, P., 157; Hartley, R. W., 794; Hastie, S., 524; Heatley, D., 9; Herrod-Taylor, E. E., 359; Hickman, J., 319; Hignett, P. G., 349; Hillman, R. W., 138; Hills, J. N. M., Oct. 14th inset; Hoffe, I. A., 426; Holford, G., 307; Hopkins, C. D., 460; Howat, G. B. B., 413; Jones, E., 549; Jordan, F. T. W., 278; Kershaw, G. F., 175; Kirkwood, A. K., 307; Lawson, J., 9; Lewis, A., 524; Linzell, J., Oct. 21st inset; McGhee, J. H., 695; Milnes, J. N., 217; Mitchell, D., 568; Moody, F. C., 278; Muir, T. H., 524; Newsholme, C. M., 549; Orton, R. G., Oct. 14th inset; Peters, E. G., 401; Pinsent, J., 695; Pybus, J., 768; Renwick, C. C., 524; Ross, J. McL., 51; Routledge, D., 733; Sellers, K. C., 489; Short, G. V., 349; Shuja, J. D., 585; Startup, F. G., 175; Stirling, J., 568; Taylor, G. R., 23; Taylor, P. E., 537; Thomson, A., 157; Thomson, P. D., 138; Thomson, W., 232; Tutton, E. A., 217; Wait, P., 246; Walker, C. W. M., 307; Walker, J., 359; Wilde, J. K. H., 716; Wilmot-Smith, P., 537; Willder, G., 460; Williams, E. I., 336; Willis, G., 460; Woodford, M. H., 196; Wooldridge, R. L., 474; Wykes, D., 537.
Civil Honours, Awards, etc.:
Carmichael, J. (C.M.G.) ... 359
Dawes, H. W. (C.B.E.) ... 8
Hammond, R. A. (O.B.E.) ... 8
Lamont, H. G. (O.B.E.) ... 359
Lloyd, E. C. (C.B.E.) ... 8
Mettam, R. W. M. (O.B.E.) ... 359
Military Honours:
Degrees [*see* under "Examinations Degrees, etc.]
"Family exchanges" ... 138
Forthcoming Marriages:
Bowler, G. T.—James, V. ... 401
Briault, M. O'M.—Thompson, P. A. ... 51
Cradock, G. J. G.—Green, M. K. ... 232
Dawson, C.—Gold, P. N. ... 36
Henderson, J. F.—Hawkins, M. ... 81
Hooper, R.—Brudenell, P. ... 599

Forthcoming Marriages—continued PAGE
Jones, A. S.—Ferguson, M. D. ... Oct. 14th inset
Penhale, A.—Chittenden, P. ... Oct. 14th inset
Shorter, D R.—Wright, A. M. ... 23
Steven, H. J.—Skinner, S. I. C. ... 794
Marriages:
Appleby, E. C.—Newitt, J. M. ... 537
Bowler, G. T.—James, V. M. ... 568
Chadwick, I. M.—Howell, G. ... 175
Collyns, D. J.—Neale, A. J. ... 246
Corrigall, W.—Stickler, M. P. ... Oct. 14th inset
Coward, T. G.—Dallyn, E. L. ... 413
Darbyshire, J. F.—Small, M. S. ... 175
Dawson, C.—Gold, P. N. ... 278
Devonald, L. J. R.—Mattock, R. J. ... 51
Dymock, W. H.—Harvey, E. ... 63
Goodhand, R. H.—Richards, P. ... 294
Harrison, V. A.—Evans, E. R. ... 307
Henderson, J. F.—Hawkins, M. ... 716
Hopkin, A.—Boley, B. ... 110
Hunnam, R.—Thorne, S. E. ... 374
Hurst, P. E.—Randle-Hollingworth, A. ... 307
Leftwich, R. B.—Hewlett, B. M. ... 158
Logan, J. B.—Bowen, K. ... 217
Loughridge, S.—Baker, T. ... 349
Low, J. J.—Lambert, D. E. ... 426
Loxam, J. G.—Smith, M. L. ... 386
Macallister, D. I.—McWilliam, F. ... 138
Macdonald-Mullett, H.—Sheffield, M. ... 232
MacLellan, M.—Durno, M. C. ... 460
Munro, D. W. J.—McKenzie, M. F. ... 308
Oates, W. G. R.—Deverill, M. J. ... 217
Ogden, L.—Ibbetson, J. ... 401
Oldham, J. G.—Astoin, M. P. ... 308
Parkinson, W. G.—Mills, S. ... Oct. 14th inset
Pinniger, R.—Hawkins, O. ... 81
Prescott, J. G.—Sleigh, A. K. ... 124
Scurfield, R. W.—Rackham, J. A. ... 537
Shorter, D. R.—Wright, A. ... 426
Smith, F. R.—Baddeley, E. ... 9
Smith, R. N.—Webster, M. V. ... 733
Solomon, D.—Widrich, S. ... 63
Stubbins, A. G. J.—Murray, M. L. ... 568
Tobin, W.—Lambourn, B. T. ... 716
Toop, B. R. V.—Marriott, V. M. ... 585
Toovey, J. A.—Walpole, B. ... 474
Warde, J. D.—Currie, P. R. ... 524
Wilson, A. K. Benham, C. ... 359
Wilson, J. C.—Potter, C. ... 175
Young, A. A.—Moffat, M. T. ... 217
Miscellaneous:
Bartrum, V. A. (Election to "Court" of Livery Company) ... Oct. 14th inset
Bonadeo, H. F. (Appointment as judge at Perth Show) 23
Boyle, Capt. Vincent (Note from Montevideo) ... 513
Cabot, Sir Daniel (Election as Corresponding Member, Sociedad Veterinaria de Zootechnia of Spain) ... 733
Carmichael, J. (Election to Council of the Royal Society of Tropical Medicine and Hygiene) ... 63
Henderson, W. M. (Visit to the U.S.A.) ... 401
Innes, J. R. M. (Election to Academy of Medicine, Washington, D.C.) ... 263
Lambert, N. H. (Rugby international referee) ... 51
Leitner, H. (Correspondence exchange request) ... 175
Locke, Mr. and Mrs. G. H. (Golden wedding anniversary) ... 23
Maldonado, Dr. Rohas, Visit of ... 308
Miss Jean Murphy (qualification as a solicitor) ... 9
Vincent, P. ("The Doyen of the Profession") ... 8
Ward, A. (Election as County Alderman) ... 474
West, Geoffrey (War Service award—Greek equivalent of Distinguished Service Cross) ... 217
Presentations:
Anderson, J. ... 768
Pugh, L. P. ... 844
Retirement:
Anderson, J. ... 537
Wills:
Allan, W. ... 278
Shave, E. Simpson ... 23
Walpole, F. O. L. ... 336
Pest control products, Nomenclature of ... 113, 303, 524
Petrol off the ration ... 336

PAGE
Pharmaceutical Society of Great Britain: Appointment of Veterinary Codex Committee ... 246, 354
First meeting of ... 260
Pharmaceuticals, Certain new, as applied to internal medicine and surgery (Davidson, J. L.) [Abs.] ... 476
Pharmacopoeia, The International ... 413
Phenothiazine, Critical tests of as an anthelmintic for horses, T. E. Gibson ... 341
—— therapy for horses, continuous: Part II.—Haematological studies with a note on *post-mortem* findings (Hansen, M. F., Todd, A. C., & Kelley, G. W.) [Abs.] ... 228
Pig-breeding, Scientific, Dr. Winters on ... 26
—— diseases, Observations on some, D. Luke and W. A. M. Gordon ... 179
—— production and disease, Some aspects of, D. J. Anthony 39
——, Sodium fluoride in the, D. Luke and W. A. M. Gordon 234
Piglets, Notes on deaths in young, similar to the haemolytic disease in young foals, G. F. Kershaw ... 383
Pigs and pig production, D. J. Anthony ... 417
——, baby, Hypoglycaemia in (Sampson, Josse) [Abs.] ... 583
——, Brucellosis in, Thos. Dalling ... 234
——, Oedema of the bowel in, B. M. McIntosh ... 177
——, The rectal temperature in normal and infected (Pullar, E. M.) [Abs.] ... 546
——, young, reared in a cold and damp environment, Hepatic changes in (Naphthalin, J. M., & Howie, J. W.) [Abs.] ... 484
Placenta, retained, and septic metritis of the bovine, The treatment of, J. B. Wilson ... 626
Pneumonia, infectious, of pigs (Pullar, E. M.) [Abs.] ... 583

Poisoning:
A further case of deafness following coal gas poisoning in a dog, N. Comben ... 566
Acorn poisoning in heifers, K. G. Towers ... 74
Antrycide dimethosulphate, The toxicity of, R. J. Garner 314
Carbon tetrachloride dosage in sheep: Some observations on possible chronic toxicity, J. E. N. Sloan ... 380
Castor bean poisoning, T. Geary ... 472
Cattle poisoned by red lead paint: damages awarded ... 198
Hydrocyanic in pasture plants, H. E. Hornby and J. Robson ... 1
Studies in the toxicity of benzene hydrochloride, D. W. Jolly and G. J. Kane ... 377
Toxic reactions following the use of Phenamidine (May and Baker) in the dog, S. S. Nye ... 533
H. A. Crawshaw and J. Nicol ... 533
Toxicity following the daily use of Phenamidine (M. & B.) in the dog, F. G. Greer and P. N. Banks 60
—— of antrycide dimethosulphate, The, R. J. Garner ... 314
—— of iron salts and boric acid in the human subject, G. P. W. ... 124
Poisons List and Rules, The: Proposed changes ... 320
Polo ... 450
Polyarthritis in lambs, Investigation of further cases of, following serum inoculation, W. T. Rowlands and C. M. Edwards ... 213
Ponies, Fell, Preservation of ... 176
Poultry breed type, Importance of ... 565
—— feeds, Inclusion of sulpha drugs in, F. H. Manley ... 696
—— improvement in Scotland ... 176
——, live, Removal of restrictions on the sale, exhibition and movement of ... 81
—— population of Northern Ireland, Safeguarding the ... 313
—— Science conference ... 247
Pregnancy, artificial, in cattle, The possibility of (Hammond, J.) [Abs.] ... 534
—— diagnosis, Equine, R. C. Crowhurst ... 452
—— —— tests in farm animals (using the common toad, *Bufo melanostictus* Schneid), J. L. Bhaduri 618
—— following caesarean section in a cow, Sidney S. Nye 770
—— toxaemia in ewes, Cobalt therapy in, L. B. O'Moore 178
—— —— therapy, Ian Conacher ... 218
—— toxaemias in animals (symposium) ... 65
Professional incomes ... 736
Progeny testing of dairy bulls ... 290
Pugh, Major Leslie P.: Election into Professorship of Clinical Studies in the University of Cambridge [Biog.] 427
Purchase tax, The ... 384
—— —— Exemptions, Further ... 176

PAGE

Q fever in Great Britain: Clinical account of eight cases (Harmann, J. B.) [Abs.] 259
—— —— ——: Isolation of Rickettsia burneti from an indigenous case (McCallum, F. O., Marmion, B. P., & Stoker, M. G. P.) [Abs.] 259
Quarantine [Edit.] 118
—— stands on guard in war against disease: Isolation is Australia's ally, John Loughlin 116

Questions and Answers:

Abortion following sheep worrying 276
Auxiliary teat opening, Closure of 48
Caesarean section in the bovine, Post-operative treatment in 788
Canine dietary regime 788
Condition in pigs for diagnosis 398
Corpus luteum, Unusual sequel to expression of 628
"Doping" in greyhounds, Ascertainment of 48
Enucleation of eyeball in pregnant cow 171
Febrile condition in cattle, A 333
Gilts, first farrowing, Administration of narcotic to ... 171
Growth of the corneal-scleral junction in a Great Dane 97
Horns in calves, Prevention of growth of 628
Horse's death after access to sack of grain 628
Hunter, Chronic respiratory disorder in a 788
—— mare, A: Enquiry as to diagnosis 397
Hypnotic for minor operations 136
Infertility in a bull, Complete 275
Lucerne: Hay or silage? 788
Mastitis, haemolytic staphylococcal, Treatment of ... 135
Milk retention, Hormonal treatment for 171
Milk sampling, Optimum time for 333
Mummification of foetuses in the bitch 398
Nymphomania in mares, Treatment of 333
Oedema disease of swine 135
Operation for making dogs mute 230
Rickets in a thoroughbred yearling 485
Sodium fluoride as an anthelmintic for pigs 97
Soft pads in dogs, Treatment for 48
"Staggers" and anaphylaxis 229
Tail slackness in cattle 397
Thickening of the dewlap in the cow 230
Tuberculin testing: double intradermal in pigs 276
—— —— in pigs and cattle 275
—— ——: The skin lesion problem 97
Tumour on the gum in a bull terrier bitch 485
Correspondence re:
A cardiac case for diagnosis, D. K. Detweiler 49
Abortion following sheep worrying, R. C. G. Hancock 334
Diagnosis of pregnancy in bovines, The, E. P. Barrett 49
P. Crosfield ... 49
J. P. Pickering 50
J. L. Hancock 98
D. N. Spriggs 136
J. A. Henderson 172
Hunter mare diagnosis enquiry, F. W. Chamberlain ... 486
Infertility, complete, in the bull, M. Crawford 334
"Roaring" in cattle, L. A. Dykstra and D. A. Rickards 98
Tuberculin testing of pigs, J. P. Railton 334
Quin, Dr. J. I., Death of [Obit.: Dr. H. H. Green] ... 217
Rabies in the United States 476
—— (Questions in Parliament) 372
—— vaccination, avianized, project: Progress report on (Starr, L. E., Stafford, A. L., & Dye, O. B.) [Abs.] 607
—— virus vaccines, chick embryo adapted living, Review of the, with primary emphasis on use in dogs (Cox, H. R.) [Abs.] 607
——, W.H.O. expert committee on 380
Racehorse doping tests 372
Rations for sick horses detained in veterinary establishments 460
Reading cattle market centenary 764
Rectal prolapse, The treatment of by submucous resection, J. G. Wright 330

Reports:

Miscellaneous:
Animal Health Trust: Third annual report (July 1st, 1948—June 30th, 1949), P. C. 48
Antibodies in foot-and-mouth disease, The (J. B. Brooksby) [A.R.C. Report Series No. 9, 1949], L. H. C. 228
British Council, The: Report for the year 1948-49 ... 156
Medical Research Council, Report for the years 1945-48, R. E. G. 244
Ministry of Agriculture and Fisheries: Report of Proceedings under the Diseases of Animals Acts for the years 1938 to 1947 75
"Onlooker" 126
National Institute for Research in Dairying: Report for the year ending September 30th, 1948 409
Newcastle-on-Tyne, City and County of (Annual Report of the Veterinary Officer for 1949) 732
Trade in horses for slaughter and export: Report of the Rosebery Committee 139, 211
Overseas:
Australia: Commonwealth Scientific and Industrial Research Organisation—First annual report, for the year ended June 30th, 1949, G. P. W. 511
Canada, Department of Agriculture: Report of the Veterinary Director General, 1948-49, G. P. W. ... 35
Cyprus: Annual report of the Chief Veterinary Officer for 1949 and of the Livestock Officer, M. C. ... 535
East African Veterinary Research Organisation: First Annual Report (1948), H. A. C. 137
Johannesburg, City of: Report of Director of Abattoir and Live Stock Market Department, July 1st, 1948, to June 30th, 1949, D. J. A. 193
Reproductive behaviour 111
Research grants for the Far East, 1949-50 847

Reviews:

An outline of veterinary science (Government of Pakistan publication: edited by F. C. Minett) 99
Biological actions of sex hormones (Harold Burrows) ... 485
Chemical constitution and biological activity (W. A. Sexton) 172
Clementson's list of scholarships, fellowships and grants to students and research workers; The report of the British Council, the year 1948-49 156
Comparative anatomy and physiology of the larynx (E. V. Negus) 347
Contribuiçao para a circurgia abdominal do cao (E. A. Matera) 474
Dairy Farmer's Encyclopoedia (Alan Morley) 524
Die biochemischen grundlagen der tiernahrungslehre (Karl Scharrer) 713
Diseases of the pig (D. J. Anthony) [Third Edition] ... 410
Elephant Bill (J. H. Williamson) 534
Eugen fröhner lehrbuch der toxikologie für tierärxte (Völker, R.) 317
Food materials of animal origin, A study of (Dr. Schonberg) 455
Grass (U.S.A. Dept. of Agriculture Year Book of Agriculture, 1948) 546
Kind killing (U.F.A.W. Handbook) 261
Klinische diagnostik der innere erkrankungen und hautkrankheiten der haustiere (D. Wirth) 61
Lehrbuch der Tiergeburtshilfe (J. Richter and R. Gotze) 384
Maladies du mouton et de la chèvre (Craplet, C.) ... 292
Mammals in Britain (Michael Blackmore) 261
Medical protozoology (Cecil A. Hoare) 276
Neoplasms of the dog, R. M. Mulligan 214
Nomenclature of fungi pathogenic to man and animals: Names recommended for use in Great Britain (Med. Rec. Coun. Memo. 23) 358
Notes on communicable diseases of laboratory animals (H. J. Parish) 443
Nutrition of the dog (Clive M. McCay) 584
Penicillin (Sir Alexander Fleming) [Second Edition] ... 731
Physikalische tiermedizin (Physical veterinary medicine) (O. Eggert) 790
Pipe dreams about leather and saddles (Leonard K. Mason) 511
Pony Club annual 790
Poultry keeping (Charles F. Stacey) 215
Practical veterinary pharmacology, materia medica and therapeutics (Howard Jay Milks) 305
Radbon, George (Obituary tribute), J. McC. 569
Radiology in small-animal practice (G. B. Schnelle) [Second Edition] 372
Richtlinien für die Sektion der Haustiere (Dobberstein, J.) [Seventh Edition] 410
Sheep management and diseases (H. G. Belschner) ... 842

PAGE

Some important animal diseases in Europe (Papers at Animal Diseases Meeting, Warsaw, 1948) 455
The story of animal life (Maurice Burton) 134
The strange world of Nature (Bernard Gooch) 764
Thompson's elementary veterinary science (Sixth edition, by A. C. Duncan) 7
Travaux D'immunologie—Le principe des anatoxines et ses applications (G. Ramon) 424
Walters' Horse Keeper's encyclopedia (Andrew George Elliott) 399
Richards, Gordon, Another great record by 296
Richardson's "Veterinary Protozoology" 117
Rickets in sheep: field trials in East Anglia, T. K. Ewer 603
Riding, The revival of 845
Rinderpest, Immunisation against by lapinised virus, H. C. Watson 519
—— outbreak in Tanganyika 263
Ringworm, Diagnosis of by differential staining technique, E. F. Lewis 94
Ripley, Mr. J. H., Death of 158, 175
An appreciation, P. H.-P. 175, 196
River pollution and fish destruction 193
Robinson, Mr. F. E., Death of [Obit.] 568
Ross, Dr. I. Clunies [Biog.] 489
ROYAL ARMY VETERINARY CORPS:
Appointment of Brigadier G. A. Kelly as Colonel Commandant 630
Golfing Society annual meeting 374
Officers' Club annual dinner 374
Plaque on Doncaster race stand 460
—— —— —— ——, War-time experiences with the, and remarks on some of the diseases encountered, E. S. W. Peatt 591

Royal College of Veterinary Surgeons:

[For additional entries (Meetings of Council, etc.) *see* Index to *Supplement*.]
Aleen Cust research scholarship: Award to Mr. D. E. Donald 278
Annual General Meeting in Dublin 385
Central Library for Animal Diseases: Quarterly Accession lists 52, 263, 387, 631
Council 318
Council Election:
Correspondence *re:* Arnold Spicer 38
Notes *re* 195
Result 348
Voting in 374
D.V.S.M. Diploma awards 374
Fellowship conferments: Turnbull, N. R., 110; Edwards, S. J., 51; Heath, G. B. S., 110; Knight, G. C., 51; Pierce, A. E., 110; Joshua, Miss J. O., (First woman Fellow), 261; Cockrill, W. Ross, Oct. 21st inset; Griffiths, W. R., Oct. 21st inset.
Francis Hogg Prize 374
John Henry Steel Memorial medal: Award to Professor Thos. Dalling 278
Livesey Medal: First awards to Professor Wright and Mr. Gordon Knight 374
Membership examinations (*see* under "Examinations")
Proceedings of Disciplinary Committee 535
Williams Memorial Prize Award (1949): Littlejohn, Miss S. A. I. 51
Royal Sanitary Institute's Health Congress, 1949: Proceedings of Section D (Veterinary Hygiene) [Abs.] ... 292
—— —— —— —— —— (1950) 295, 597
—— —— —— meetings 491
Royal Society of Medicine: Tax ruling in favour of veterinary Fellows 81, 139
Rumenotomy, A review of fifty cases of, R. S. Naismith 581
——, An improved technique in, E. P. Barrett and H. A. Crawshaw 402
Rupture, abdominal, Successful repair of, using the vastus internus muscle, Patricia J. Turner 730
Russell, Major Edmund Cracroft, Death of [Obit.] ... 196

Salmonella typhimurium, The isolation of from the carcase of a bullock submitted for meat inspection, E. J. L. Soulsby, J. Norval and J. E. Wilson 291
—— ——, The occurrence of in hen eggs and its implications, J. E. Wilson 449
Salmonellae, Incidence of in faeces of dogs suffering from distemper, H. Williams Smith and A. Buxton 735
——, Isolation of from dogs, cats and pigeons (Cruickshank, J. C., & Smith, H. W.) [Abs.] 192
Sark, Request for veterinary services from the Island of Sark 716
Schuman Plan and farming products 386
Share Jones, Emeritus Professor, John, Death of 767
Preliminary notice 768
Memoir, H. V. M. 843
Tribute, F. H. Manley 848
Scientific worker, The economic position of the 484
Scouring in calves fed on milk from cows grazing new leys, P. L. Shanks 315
Seaweed industry, The, ... 397
Semen, bovine, The effect of reducing the quantity of egg yolk in diluents, D. L. Stewart, D. R. Melrose and W. R. Wilson 617
Sheep, Carbon tetrachloride dosage in: Some observations on possible chronic toxicity, J. E. N. Sloan 380
——: "Out of the way" at Whipsnade 257
—— scab in Cumberland 197
——, The breeding season of the, with special reference to its modification by artificial means, using light (Yeates, N. T. M.) [Abs.] 192
——, Tick-borne fever as a cause of abortion in: I.—J. T. Stamp and J. A. Watt; II.—S. Jamieson 465
Shepherd, Mr. Edward, Death of 217
[Obit.] 232
A tribute, P. E. C. 232
Shire horse warning 640
Shock: Its production and treatment (Essex), H. E.) [Abs.] 567
Sibley, Mr. Percy Septimus, Death of [Obit.] 279
Slaughter of animals (Questions in Parliament) 319, 714, 732, 764, 792
—— pools 693
Slaughtering "now over-centralised" 53
Slaughterhouse conditions complaint 35
Smith-Mundt grants for study in the United States, 1950-51 51
Society of Practising Veterinary Surgeons, The 382
Sodium fluoride: A discussion of its use in ascariasis in pigs, G. C. Brander 405
Soil association, The 688
—— erosion dangers in the colonial dependencies 234
South Africa claimed as "the cradle of the human race" 241
Spirocercosis in dogs, Preliminary note on the treatment of with a piperazine compound, Caricide (Lederle), C. A. McGaughey 813
Stableforth, Dr. A. W., Appointment as Director of the Ministry of Agriculture's Veterinary Laboratory at Weybridge 195
Standard *p*H scale 440
Starvation in Wisconsin deer, Observations on histological changes associated with (Rausch, R.) [Abs.] 424
Sterility in the bovine: Conference at Lyons 294
Stilboestrol implantation in cockerels, Kathleen G. R. Kelly and R. S. Roberts 44
Stomatatis, ulcerative, in an elephant, suspected to have been caused by acetic acid, C. A. McGaughey 813
Streptococci, Group B, of bovine origin, The pathogenicity for mice of (Pattison, I. H.) [Abs.] 384
Streptococcus agalactiae, Distribution of outside the bovine udder and its survival (Chodowski, A.) [Abs.] 442
—— —— infection, Experiments on the transmission of by milking with infected hands (Lancaster, J. E., & Stuart, P.) [Abs.] 6
—— ——, Scheme for the eradication of from dairy herds, L. Pitcher 736
E. P. Barrett and H. A. Crawshaw ... 769
—— ——, Some factors which may be concerned in the susceptibility of the bovine udder to (Stuart, P., & Lancaster, J. E.) [Abs.] 6
—— *pneumoniae* infection in calves, L. G. Donald and S. O. Mann 257
Streptomycin [Edit.] 273
—— concentrations in milk following insertion of streptomycin bougies into the bovine udder (Trussell, P. C., & Stevenson, W. G.) [Abs.] 275
——, Studies on in relation to its possible uses in veterinary practice, D. L. Hughes and R. K. Farmer 265

PAGE
Students, Air travel concessions for 139, 294
——, Association of Veterinary: Annual Conference and Sports Tournament 233
——, veterinary; completing full-time studies in 1950 (Ministry of Labour and National Service memorandum) 279
Sulphadiazine, Bacteriostatic activity of as affected by procaine penicillin (N. Amer. Vet.) [Abs.] 815
Superovulation in the cow, L. W. Fuller 291
L. E. Rowson 322
Surgical techniques, Some, John Hickman 283
Swayback in a folded flock of sheep, K. C. Sellars 134
Swine erysipelas, Penicillin in the control of, J. C. Taylor 38
—— fever (crystal violet) vaccine, S. P. Maddison ... 633
—— ——: imposition of restrictions on the movement and marketing of swine 475
—— —— in Scotland 768, 846
—— —— increase 455
——, The pathological diagnosis of, F. H. Manley 177
——, Oedema disease of, J. O. Powley 848
——, —— ——: Experimental reproduction of, J. F. Timoney 198
——, Removal of restrictions on the movement of 60
Sydney University Faculty of Veterinary Science: Chair of Veterinary Physiology established 319
Syringe sterilisation 358

Teat obstruction, Relief of: Control of post-operative haemorrhage, Eric Jones 178
—— surgery, Bovine, T. Norman Gold 119
Testicular hypoplasia, bilateral, in the goat, A case of, D. H. L. Rollinson 303
Tetanus in a horse, Penicillin in the treatment of, J. K. H. Wilde, J. Robson and T. Lwebandiza 345
Tick-borne fever as a cause of abortion in sheep: I.—J. T. Stamp and J. A. Watt; II.—S. Jamieson 465
Ticks, hard, on cattle: An investigation of the effect of gammexane in a half-bath on (Beakbane, H. R., & Wilde, J. K. H.) [Abs.] 409
Thiopentone (pentothal sodium) as a general anaesthetic in the horse, E. O. Longley 17, 82
W. M. Henderson and J. B. Brooksby ... 38
Torsion of the liver in a sow, M. R. W. Lewis 588
H. Thornton 716
Transfusion, exchange, in the new-born foal, The technique of, B. T. Farrelly, C. W. A. Belonje and M. T. I. Cronin 403
Trichomoniasis, Technical aspects of (laboratory diagnosis) (Lamont, H. G.) [Abs.] 815
Troughs, Those granite 315
Trypanosoma congolense, A preliminary note on resistance to treatment as shown by a strain of in the Bukomero district of Uganda, S. G. Wilson 709
Trypanosomiasis, bovine, in the Sudan: Mass treatment with Antrycide, J. T. R. Evans 59
Tsetse control in the Gold Coast 50
Tubercle bacilli (B.K.), The histological picture of the inoculation site and regional lymph nodes in experimental subcutaneous infection and reinfection with, in the cow (Hubacher, K.) [Abs.] 371
—— ——, On the behaviour of in experimental reinfection of cattle (Graub, von E.) [Abs.] 371
—— bacillus, bovine, Control of infection with the (Francis, J.) [Abs.] 156
—— free cattle, Scotland's lead in 297
Tuberculin tested area, New Forest as a 600
—— ——, The vagaries of the, W. R. McKinna 140
Tuberculosis, bovine: Attested herd scheme, Influence of on the local incidence and degree of, in slaughtered cows and calves, P. S. Watts and J. Robertson 127
—— ——: Statements showing position in each County (Quarterly) 196, 296, 461, 632
—— ——: Test certificates for individual animals ... 413
—— ——: Area eradication scheme 446, 524, 599
[Edit.] 581, 846
—— —— and the importation of Irish cattle ... 795
—— ——: "spate of reactors" 48
—— —— testing, compulsory, to be introduced in New Zealand 728
—— Conference, Contribution to proceedings of the Second Commonwealth Health and (Francis, J.) [Abs.] ... 398
—— eradication: compensation proposals 9
——, human, in Scotland: Need for emergency drive ... 413

PAGE
—— in Britain 491
——, infection with the living vole acid-fast bacillus, Studies on the vaccination of cattle as a measure against (Young, J. A., & Paterson, J. S.) [Abs.] 789
—— -like lesions in the pig, A. Ginsberg and A. J. Fitzpatrick 808
—— of the brain in cattle (Tenchner, K.) [Abs.] 627
—— of the udder and its differential diagnosis, J. Weir and D. Barbour 239
[Edit.] 243
J. S. Steward 298
——, the eradication of, Human health and the [Edit.] ... 483
——, Transmission of to chicks through the eggs of tuberculous hens, M. Naguib 813
Tuberculous cattle, The accuracy of diagnostic methods used in the detection of (Gregory, T. S.) [Abs.] 731
Tympany, The use of an antihistamine drug in a case of, E. N. Schwabacher 711

Udder infections, *Streptococcus agalactiae* and *Staphylococcus aureus*, Observations on the treatment of with mixtures of streptomycin and penicillin (Foley, E. J., & Byrne, J. V.) [Abs.] 47
——, The case for direct injection of penicillin into the, Hugh Begg and W. A. Whiteford 103
——, Tuberculosis of the, and its differential diagnosis, J. Weir and D. Barbour 239
[Edit.] 243
Udolac (Diaminodiphenylsulphone), Fatal poisoning with (Davies, R.) [Abs.] 424
Undulant fever, R. G. Pearson 66
United Nations Food and Agriculture Organisation ... 715
Universities Federation for Animal Welfare: "Fougasse" the new Chairman 81
University of Wales, Proposed Veterinary Faculty in the: Five years' postponement of claim for financial assistance 446
—— Veterinary Degrees, Recognition of (*see* under "Veterinary Degrees")
Uterine necrosis, Even areas of, following parturition, S. S. Nye 118
Olwen D. James 140
—— stump, Intestinal adhesions to the, P. K. Fleck ... 538
S. S. Nye 588
R. E. Williams ... 602
F. G. and Christine M. Startup ... 634
A. D. A. Isherwood 634

Verminous aneurysm: cause of recurrent colic in the horse? J. E. Johnson 45
Veterinary and Remount Centre, Melton Mowbray, The, G. P. W. 524
—— Codex Committee 246, 260, 354
—— control of products of animal origin, A. Ginsberg ... 470
—— Council of Ireland 370
—— Degrees, Recognition of University 443, 488
—— inspection at dog shows, Joan O. Joshua 716
William R. Anderson ... 770
Olwen Gwynne Jones ... 770
—— partnerships (N.V.M.A. memorandum) 524
—— practice, Book keeping and accountancy in relation to a, H. W. Steele-Bodger 104
—— "Record": Statement to Council on the printing dispute 629
—— research in East Africa: A correction 246
"Veterinary Surgeon" (label) on motor cars 110
——Surgeons Act, 1948:
Supplementary Veterinary Register:
Further lists of registrations of veterinary practitioners 110, 170, 193, 499, 628, 766
R.C.V.S. Disciplinary Committee proceedings 535
Relations between veterinary surgeons and persons entered on this Register 50
Unqualified practice: First conviction under the ... 280
—— —— Acts, 1881-1948: Restorations to R.C.V.S. Register 280, 537
—— surgeons' premises, Extension of: Successful appeal under the Town and Country Planning Act ... 139
—— works, early, The collection of in the Wellcome Historical Medical Library, W. J. Bishop ... 481

PAGE

VICTORIA VETERINARY BENEVOLENT FUND:
Annual General Meeting 399
Christmas gifts, P. J. Simpson, J. B. Buxton and A. Spicer 696
Council, Meetings of 61, 347, 512, 713
Ladies' Guild:
Annual General Meeting 692
County of Ayr dance 795
Dumfries and Galloway Division, N.V.M.A. dance 64, 296
N.V.M.A. Congress Dance 680
Viruses, Nomenclature of 684
Vitamin A therapy in mixed practice, Some applications of, R. C. Tayler 32

Walpole, Mr. Frank O. L., Death of 23
[Obit.] 23
Warble fly (Dressing of Cattle) Order, 1948: Ministry of Agriculture announcement *re* 158
Watts, Dr. P. S.: Appointment as Head of the Veterinary Section of the Institute of Medical and Veterinary Science, Adelaide 336
Weipers, Professor W. L.: Visit to the U.S.A. 498
Welsh cattle top the million 537
Whalemeat, Wholesome 113
White, Dr. E. G.: Appointment to the William Prescott Chair of Preventive Medicine in the University of Liverpool 216
Whitworth, Dr. S. H., Death of 263
[Obit.] 278
An appreciation, J. T. E. 308
A further appreciation, with a sketch of a certain period in the veterinary history of Malaya, R. S. T. B. 337
Wildfowl, Epidemic diseases of 82
World food and Britain's needs, Conference on 113
Wound treatment, Modern advances in: (Central Veterinary Society discussion, opened by J. Trueta) 450
Wright, Mr. Alan J.: Election as Junior Vice-President (President-Elect), N.V.M.A. 645
Wright, Dr. Norman, Leaves the Hannah Institute ... 489
X-rays, Medical safeguards against 274
Zoological Society of London: Appointment of Dr. L. Harrison Matthews as Scientific Director ... Nov. 4th inset

R.C.V.S. OBITUARY

Ackroyd, E., 549; Angler, E. F., 138, 158; Ashby, R. T., 695.
Benson, B. H., 319; Bloxome, G. W., 9; Brodie, H. H., 319.
Canning, D. D., 36; Collinson, W., 349; Cox, F. W., 349; Crofts, C. W., 196, 217; Crowhurst, C., 568; Curley, W. A., 175, 196.
Fail, Lt.-Col. F., 196; Findlay, A. W., 51; Forbes, D. L., 23.
Gavin, F. C., Nov. 4th inset, 768; Gofton, A., 63, 78, 278; Green, A. R., 263, 308.
Johnston, Alexander, 81, 99.
Knowles, J. D., 263.
Lindsay, P. T., 9, 24; Logan, A., 446; Lord, H. H., Nov. 4th inset.
MacRae, D. E., 767, 768; Makinson, C. W., 489; Martin, H. E., 196; McChlery, A. S., 716; Mills, J. E., 23; Moody, W. J., 374.
Naismith, J. A. A., 599, 630; Niven, A., 9, 23.
Paterson, A., 9; Penhale, J. M. L., 568, 585.
Ripley, J. H., 158, 175; Robinson, F. E., 568; Russell, E. Cracroft, 196.
Share Jones, J., 767, 843; Shepherd, E., 217, 232; Spooner-Hart, R., 401.
Wadley, E. J., 232; Wadlow, C. H., 110; Walpole, F. O. L., 23, 37; Whitworth, S. H., 263, 278, 308; Williams, J. D., 81; Williams, W. M., 110; Williams, W. R., 158; Woods, H. S., 158.

GENERAL OBITUARY

Aston, Ethne Mary, 549; Austin, J., 110; Bagshawe, Sir Arthur, 217; Caie, Dr. J. M., 9; Fox, Mrs. J., 489; Matthews, Major Durham, 845; Neilsen, Professor Folmer, 139, 230, 246; Quin, Dr. J. L., 217; Omand, Ronald, 768; Radbon, G., 568; Sibley, P. S., 279; Smith, Mrs. Sam, 349; Wortley, Mrs. W. H., 196.

INDEX TO SUPPLEMENT, 62 (1950)*

* The issue of copies of Supplements to *The Veterinary Record* is restricted to Members, N.V.M.A.

National Veterinary Medical Association of Great Britain and Ireland:
Quarterly Meetings of Council 1, 21, 69, 113
Meetings of Council in Cardiff 129
MEETINGS OF CONSTITUENT BRANCHES, DIVISIONS AND OTHER AFFILIATED BODIES:
Association of Veterinary Teachers and Research Workers ???
Ayrshire ... ... 19, 59, 136 (Annual)
Central ... 37 (Annual, 1949), 38, 67, 89 (Annual, 1950), 151
Dumfries and Galloway ... ... 66, 67, 102 (Annual)
East African ... ... 85 (Annual)
East Midlands ... ... 59, 91, 112 (Annual), 150
Eastern Counties ... 19 (Special), 20, 20 (Extraordinary), 63 (Annual), 106, 146
Hertfordshire and Bedfordshire 17, 44, 62, 107, 138 (Annual)
Kenya ... ... 34 (Annual, 1949), 134 (Annual, 1950)
Lancashire ... ... 15, 42, 63 (Annual)
Lincolnshire and District 44, 136
Midland Counties ... 40 (Extraordinary), 135 (Annual), 136
Mid-West ... ... 42 (Annual), 91, 137
North of Ireland ... ... 88 (Annual), 109
North Wales ... ... 18 (Annual), 88, 107 (Special), 137
Royal Counties ... ... 15, 66 (Annual), 108, 138
Scottish Branch 103
Scottish Metropolitan ... ... 60 (Annual)
Society of Veterinary Practitioners (Now the Society of Practising Veterinary Surgeons) ... ... 139 (Annual), 149
Society of Women Veterinary Surgeons ... 59, 132 (Annual)
South-Eastern ... ... 35, 62 (Annual), 90
South Wales ... ... 16, 109 (Annual), 111 (Special), 111
Southern Counties ... ... 36, 103, 104 (Annual)
Sudan ... ... 38, 39 (Annual)
Sussex ... ... 43 (Special, 43 (Annual), 43
Sussex and South-Eastern (Joint) 112
Veterinary Medical Association of Ireland 19
Welsh (Branch) ... ... 131 (Annual)
Western Counties ... ... 40, 90 (Annual), 139
Yorkshire 41, 103, 137

Royal College of Veterinary Surgeons:
Quarterly meetings of Council 45, 93, 141
Special meetings of Council 57, 100, 145

CORRESPONDENCE

Free clinics, W. J. Tarver 92

MISCELLANEOUS

[ADDRESSES, MAJOR DISCUSSIONS, MEMORANDA, ETC., OTHER THAN THOSE PUBLISHED IN *The Veterinary Record*.]
Address on the future work of the Society of Practising Veterinary Surgeons, M. R. MacFarlane 149
Attendance on street casualties (stray dogs and cats) in the Metropolitan area: Fees payable to veterinary surgeons 59

Index to Authors : January to December, 1950

PAGE

ANDERSON, L. G.
Hard pad disease 160
"Strain 19 and the Control of Brucellosis" (Opening of discussion at Cardiff Congress, 1950) 831
Treatment of osteomyelitis in the dog 244
ANTHONY, D. J.
Persistent foramen ovale 34
Some aspects of pig production and disease 39
Some aspects of the meat industry's contribution to science 354
ALLEN, D. R.
"Symposium on Diseases of Sheep" (Opening of discussion at Cardiff Congress, 1950) 781
ALLEY, JOHN C.
"Caricide" in the treatment of *Dirofilaria immitis* in Zanzibar 522
ANDERSON, W. R.
Veterinary inspection at dog shows 770
ARNOLD, T. F.
Panting in cattle and non-sweating in horses 463
ARTHUR, G. H.
Clinical aspects of infertility in the bull 190
BANKS, P. N.
Toxicity following the daily use of phenamidine (M. & B.) in the dog 60
BARBOUR, D.
Tuberculosis of the udder and its differential diagnosis 239
BARRETT, E. P.
Scheme for the eradication of *Str. agalactiae* infection from dairy herds 769
The diagnosis of pregnancy in bovines 50
BEATTIE, G. S.
Experiences in the Antarctic 519
BEGG, HUGH
Diseases of the stomach of the adult ruminant (Paper presented to Cardiff Congress, 1950) 797
The case for direct injection of penicillin into the udder 103
BELONJE, C. W. A.
The technique of exchange transfusion in the new-born foal 403
BENNETT, G. H.
Fertility of bulls, and artificial insemination 495
BIDDIS, K. J.
A new taeniacide for dogs 841
BISHOP, W. J.
The collection of early veterinary works in the Wellcome Historical Medical Library 481
BLAKEMORE, F.
Conditions associated with hypocupraemia of bovines in East Anglia 756
BLAMIRE, R. V.
Bovine cysticercosis in Great Britain: Some cases and comments 477
BLIECK, DR. L. DE
The treatment of *Coryza infectiosa gallinarum* Type II (Nelson) with streptomycin 787
BLOUNT, W. P.
Sulpha drug treatment for caecal coccidiosis 415
BRANAGHAN, DENIS
"Is attestation a good policy?" 140
BRANDER, G. C.
Cattle mange 370
Sodium fluoride: A discussion of its use in the treatment of ascariasis in pigs 404
BROOKSBY, J. B.
Thiopentone as an anaesthetic in the horse ... 38, 101
BROWNLEE, A.
Mr. J. E. Johnson's case and animal behaviour 125
Panting in cattle 339
BRUFORD, JOHN W.
Presidential Address, N.V.M.A. (Presented to Cardiff Congress, 1950) 635
BUILDER, P. L.
An eruptive condition affecting mucous surfaces in dogs 796

PAGE

BUNN, E. A.
Treatment of canine blepharitis 588
BURGESS, J. W.
Teat surgery (Demonstration at Cardiff Congress, 1950) 676
BURROW, H.
Treatment of bovine acetonaemia by the subcutaneous injection of magnesium sulphate 510
BUXTON, J. B.
Christmas gifts 696

CAMPBELL, D.
Traumatic abomasitis 761
CARLSTRÖM, BIRGER
Deficiency diseases in domestic animals 351
—— ——, particularly acetonaemia in cattle (Presented to Cardiff Congress, 1950) 717
CARMICHAEL, J.
Dimidium bromide or phenathridinium: A note on the present position 257
The treatment of penicillin-resistant mastitis 55
CARTER, G. R.
Chronic brucellosis and allergy 281
CEMBROWICZ, H. J.
Changes in the fallopian tubes of the bovine as a cause of sterility 190
CHAMBERS, FRANK
The importance to the community of the control of animal diseases inimical to man 517
CHRISTIE, G. J.
A further note on the examination of faecal samples ... 438
Procain penicillin and interrupted penicillin treatment in *Streptococcus agalactiae* mastitis 11
COMBEN, N.
A further case of deafness following coal gas poisoning in a dog 566
CONACHER, IAN
Pregnancy toxaemia therapy 218
CRAWFORD, M.
Complete infertility in the bull 334
Fertility of dairy cattle: The management factor ... 848
CRAWSHAW, H. A.
An improved technique in rumenotomy 402
Scheme for the eradication of *Str. agalactiae* infection from dairy herds 769
Toxic reactions following the use of phenamidine (May and Baker) in the dog 533
CRONIN, M. T. I.
The technique of exchange transfusion in the new-born foal 403
CROSFIELD, PAUL
Attestation: Is it a good policy? The "biological co-operation" approach to problems of disease 476
Mastitis in a bull 533
The diagnosis of pregnancy in bovines 49
Thioracil in the treatment of hyperthyroidism in a dachshund bitch 545
CROWHURST, R. C.
Equine pregnancy diagnosis 452

DALLING, THOS.
Brucellosis in pigs 234
DANBY, D.
Attestation: Is it a good policy? 463
DANIEL, W. J.
Attestation: Is it a good policy? 102
DARCEL, C. LE Q.
Studies on the avian leukosis complex 621
DAUBNEY, R.
Panting in cattle 375
DAVIDSON, R. MACKAY
Attestation: Is it a good policy? 514
DAVIES, D. E.
"Symposium on Diseases of Sheep" (Opening of discussion, Cardiff Congress, 1950) 780

PAGE

DAVIES, D. G. E.
"Diseases of the Stomach of the Adult Ruminant" (Opening of discussion, Cardiff Congress, 1950) 804
DEAS, D. W.
"Factors Influencing Herd Fertility in Cattle" (Opening of discussion, Cardiff Congress, 1950) 663
DETWEILER, D. K.
A cardiac case for diagnosis 49
DONALD, L. G.
Streptococcus pneumoniae infection in calves 257
DOWNHAM, K. D.
Johne's disease in cattle 441
DYSTRA, L. A.
"Roaring" in cattle 98
EDWARDS, C. M.
Investigation of further cases of polyarthritis in lambs following serum inoculation 313
EDWARDS, F. B.
Attestation: Is it a good policy? 350
EDWARDS, J.
Fertility in cattle: Effect of post-partum interval ... 310
EDWARDS, J. T.
No foot—no horse 250
ELAM, C. WENTWORTH
Canine distemper, hard pad disease, *hepatitis contagiosa canis* (Rubarth), etc. 54
EMSLIE, J. W.
R.C.V.S. council election 376
The occurrence of *hepatitis contagiosa canis* (Rubarth) in Great Britain 126
ESCOTT, H. J.
Treatment of nervous forms of distemper 281
ETHERINGTON, M. G.
A note on the history of British horses in the light of recent investigations 624
EUSTACE, J. F.
Atypical pneumonia in a chimpanzee treated with chloromycetin 355
EVANS, J. T. R.
Bovine trypanosomiasis in the Sudan: mass treatment with antrycide 59
EWER, T. K.
Aphosphorosis in young cows in East Anglia 343
Rickets in sheep: field trials in East Anglia 603
FARMER, R. K.
Procaine penicillin and interrupted penicillin treatment in *Streptococcus agalactiae* mastitis 11
Studies on streptomycin in relation to its possible uses in veterinary medicine 265
FARRELLY, BRENDAN T.
The technique of exchange transfusion in the new-born foal 403
FIELD, H. I.
Leptospira icterohaemorrhagiae infection in the calf ... 311
FITZPATRICK, M. J.
Tuberculosis-like lesions in the pig 808
FLECK, P. K.
Intestinal adhesions to uterine stump 538
FODEN, C. A.
Vibrio foetus and fertility in cattle 516
FOGGIE, ANDREW
Ketosis of dairy cows housed in courts and byres ... 271
FORD, CONNIE M.
Representation in formation of N.V.M.A. policy 570
FORD, E. J. H.
A case of displacement of the bovine abomasum 763
FORMSTON, C.
Chloral hydrate narcosis in the bovine (Demonstration, Cardiff Congress, 1950) 676
Regional anaesthesia in the bovine (Demonstration, Cardiff Congress, 1950) 676
FRAME, JAMES
The treatment of bowel oedema in pigs 544
FRANCIS, J.
Attestation: Is it a good policy? 281, 448
FREAK, MARION J.
An eruptive condition affecting mucous surfaces in dog 796
FULLER, L. W.
Superovulation in the cow 291
GARNER, R. J.
Aspiration biopsy of the liver in cattle 729
The toxicity of antrycide dimethosulphate 314

PAGE

GEARY, T.
Castor bean poisoning 472
GIBSON, T. E.
Critical tests of phenothiazine as an anthelmintic for horses 341
GINSBERG, A.
The veterinary control of products of animal origin ... 470
Tuberculosis-like lesions in the pig 808
GRAY, ERNEST
Treatment of the leukosis complex 526
GOLD, T. NORMAN
Bovine teat surgery 119
GORDON, W. A. M.
Aujeszky's disease—A sporadic case in a fox terrier bitch 596
Observations on some pig diseases 179
GORET, P.
Experimental studies upon the canine distemper virus: variations in virulence and their relation to the symptomatology and prophylaxis of the disease 67
GORDON, W. A. M.
Sodium fluoride in the pig 234
Some pig diseases (Presented to Cardiff Congress, 1950) 737
GOULD, G. N.
Fertility of bulls, and artificial insemination 493
GRANT, J. C.
Experimentation upon farm animals carried out without the active co-operation of a veterinary surgeon ... 322
GRAY, W. V.
Dehorning of cattle 376
GREER, F. G.
Toxicity following the daily use of phenamidine (M. & B.) in the dog 60
GREENOUGH, P.
Dehorning of cattle 325
GREIG, J. RUSSELL
James Clark Memorial 588, 790
HANCOCK, J. L.
The diagnosis of pregnancy in bovines 98
HANCOCK, R. C. G.
Abortion following sheep worrying 334
Attestation: Is it a good policy? 101
Homoeopathy in the veterinary field 476, 514
HANSON, B. S.
Sulpha drug treatment for caecal coccidiosis 447
The British Council 178
HARDING, H. P.
Diagnosis, epidemiology and control of trichomoniasis ... 190
The clinical aspect and diagnosis of trichomoniasis, with particular reference to the bull 539
HARDWICK, E. F.
Cysticercus bovis 633
HARE, TOM
Illness in huskies 60
Research into the diseases of dogs 198
HARROW, W. T.
A mixture of β-naphthoxyethanol with thiallbarbitone ("Anavenol"-K) as an anaesthetic in farm animals ... 507
"Anavenol" K (Demonstration, Cardiff Congress, 1950) 678
HART, C. B.
Dislocated hip in the cow 227
HARTLEY, R. W.
Vibrio foetus and infertility in cattle 416
HARVEY, D. G.
Some aspects of the mineral requirements of small animals 143
HEBELER, H. F.
Successful L.D. vaccine-virus treatment of (?)hard pad disease 213
HENDERSON, WILLIAM
Ear treatment and aural resection in the dog 21
High amputation of the limb of a bitch following neoplastic destruction of the tibia 332
Thiopentone as an anaesthetic in the horse ... 38, 101
HENEY, J. W.
"Clinical diagnosis of diseases of the abdomen of the dog and cat" (Opening of discussion, Cardiff Congress, 1950) 705
HICKMAN, JOHN
Opening and closing the abdomen 132
Some surgical techniques 283
HIGNETT, S. L.
Factors influencing herd fertility in cattle (Presented to Cardiff Congress, 1950) 651
Persistence of penicillin in the bovine udder 37

PAGE

HILLMAN, RICHARD W.
Attestation: Is it a good policy? 101
HODGMAN, S. F. J.
Research into the diseases of dogs 218
HOGARTH, T. W.
Viability of *demodex* on transference from skin to slide 101
HOLMES, C. R.
Practical aspects of artificial insemination in Kenya ... 2
HOLMES, J. R.
"Deficiency diseases, particularly acetonaemia in cattle" (Opening of discussion, Cardiff Congress, 1950) ... 724
HOLROYD, H.
R.C.V.S. Council election 376
HORNBY, H. E.
Hydrocyanic acid in pasture plants 1
HUGHES, D. L.
Bracken poisoning: Its cause and control 456
Procaine penicillin and interrupted penicillin treatment in *Streptococcus agalactiae* mastitis 11
Studies on streptomycin in relation to its possible uses in veterinary practice 265
HUGHES, IVOR
Electrocution at low voltage 102
HUGHES, L. E.
Some observations on disease in hill and lowland flocks (Presented to Cardiff Congress, 1950) 774
HUME, C. W.
Electrocution at low voltage 140
Electrocution of unwanted dogs and cats 811
HUTSON, L. R.
Observations on staphylococcal infections in the dairy goat 274

ISHERWOOD, A. D. A.
Intestinal adhesions to the uterine stump 634

JAMES, OLWEN D.
Areas of uterine necrosis following parturition 140
"Clinical diagnosis of diseases of the abdomen of the dog and cat" (Opening of discussion, Cardiff Congress, 1950) 704
JAMIESON, H. S.
Tick-borne fever as a cause of abortion in sheep ... 468
JAMIESON, S.
Symposium of sheep diseases 822
Symposium on diseases of sheep: recent investigations into certain diseases of sheep (Paper presented to Cardiff Congress, 1950) 772
JENNINGS, A. R.
A case of *Clostridium haemolyticum* (*Cl. oedematiens D.*) infection in a cow 5
JENNINGS, SYDNEY
Frictional acanthosis in dachshunds 609
JOHNS, R. H.
Back to barbarism 350
JOHNSON, A. V.
The treatment of penicillin-resistant mastitis 55
JOHNSON, J. E.
Verminous aneurysm: cause of recurrent colic in the horse? 45
JOHNSON, LUBA
The treatment of penicillin-resistant mastitis 55
JONES, ERIC
Relief of teat obstruction: control of post-operative haemorrhage 178
JONES, OLWEN G.
Veterinary inspection at dog shows 770
JOHNSTON, R. W.
Mastitis medication in relation to public health 322
JOLLY, D. W.
Studies in the toxicity of benzene hexachloride 377
JOSHUA, JOAN O.
An eruptive condition affecting mucous surfaces in dogs ... 796
Hepatitis contagiosa canis (Rubarth) 566
Trilene anaesthesia in small-animal surgery 191
Veterinary inspection at dog shows 716

KANE, G. J.
Studies in the toxicity of benzene hexachloride 377
KELLY, KATHLEEN G. R.
Stilboestrol implantation in cockerels 44
KENDALL, S. B.
A comparison of the efficacy of sulphamezathine (sulphadimethylpyrimidine) and sulphaquinoxaline in the control of experimentally induced caecal coccidiosis in chicks 381

PAGE

KERSHAW, G. F.
Notes on deaths in young piglets similar to the haemolytic disease in young foals 383
KIRK, HAMILTON
An outbreak of assumed "hard pad" disease 634
Fractured legs in horses 821
Metal plating a fracture and the treatment of imperfect union 94
Repair of fractures in the racing greyhound by modern methods 786
KNIGHT, GORDON C.
General anaesthesia in small animals, and a method of positive pressure ventilation of the lungs (Demonstration, Cardiff Congress, 1950) 676
Viability of *demodex* 140

LAMBERT, N. H.
Atypical pneumonia in a chimpanzee treated with chloromycetin 355
LAMBERT, P. S.
Ear treatment and aural resection in the dog 21
LAMONT, H. G.
Aujeszky's disease—A sporadic case in a fox terrier bitch 596
Some pig diseases (Presented to Cardiff Congress, 1950) 737
LANG, F. A.
Suppression of oestrus in cattle 190
LAUDER, IAN M.
Animal diseases inimical to man 550
Demodectic mange. The viability of *demodex* on transference from skin to slide 114
Leptospirosis. Clinical appearance of the dog with disease caused by *Leptospira canicola* with brief reference to diagnosis 395
LAUDER, J. S. J.
Clinical diagnosis of diseases of the abdomen of the dog and cat (Presented to Cardiff Congress, 1950) 697
LAWSON, J. R.
Strain 19 and the control of brucellosis (Presented to Cardiff Congress, 1950) 823
LEE, R. P.
The fate of hexachlorethane in ruminants 696
LEWIS, E. F.
Diagnosis of ringworm by differential staining technique 94
Treatment of bovine acetonaemia by the subcutaneous injection of magnesium sulphate 510
LEWIS, MICHAEL R. W.
Torsion of the liver in a sow 588
LISHMAN, T.
Prescience of John Penberthy 588
The dehorning of adult cattle 463
LITTLEJOHN, ANNIE I.
Enzootic abortion in ewes. An investigation into the naturally occurring disease 571
Tick-borne fever as a cause of abortion in sheep ... 577
LONGLEY, E. O.
Electricity and the horse 159
Ethyl chloride in veterinary anaesthesia 152
Improved intravenous technique in the large animals ... 15
Intravenous ether for general anaesthesia in the horse ... 30
Thiopentone as an anaesthetic in the horse 82
Thiopentone (pentothal sodium) as a general anaesthetic in the horse 17
LOUGHLIN JOHN
Quarantine stands on guard in war against disease: isolation is Australia's ally 116
LUCKIN, K. G.
Attestation: Is it a good policy? 102
LUKE, D.
Observations on some pig diseases 179
Sodium fluoride in the pig 234
Some pig diseases (Presented to Cardiff Congress, 1950) 737
LWEBANDIZA, T.
Penicillin in the treatment of tenanus in a horse 345

MACLAY, MARY H.
Distaquaine (procaine penicillin G) suspension: blood levels in cattle 579
The treatment of penicillin-resistant mastitis 55
MADDISON, S. P.
Swine fever (crystal violet) vaccine 633
MANLEY, F. H.
The late Emeritus Professor John Share Jones 822
The pathological diagnosis of swine fever 177

PAGE

MANN, K. H.
Deaths in young ducklings associated with infestations of the nasal cavity with leeches 225
MANN, S. O.
Streptococcus pneumoniae infection in calves 257
McCLEERY, E. F.
Bovine cysticercosis in Great Britain: some cases and comments 477
McDIARMID, A.
A comparison of the immunity produced in cattle by the inoculation of *Br. abortus* Strain 19 intradermally, intracaudally and subcutaneously 361
McEWEN, A. D.
Enzootic abortion in ewes. Transmission of the disease 251
Ketosis of dairy cows housed in courts and byres ... 271
The resistance of the young calf to disease 83
Variations in the bactericidal and bacteriostatic properties of milk 27
McGAUGHEY, C. A.
"Native" 340
Preliminary note on the treatment of spirocercosis in dogs with a piperazine compound, Caricide (Lederle) 814
Ulcerative stomatitis in an elephant, suspected to have been caused by acetic acid 813
McILWAINE, J.
Dehorning of cattle 388
McINTOSH, B. M.
Oedema of the bowel in pigs 177
McKINNA, W. R.
The vagaries of the tuberculin test 140
MELROSE, D. R.
The effect of reducing the quantity of egg yolk in bovine semen diluents 617
MERLEN, H.
F. hepatica and the tuberculin reaction 570
MERLEN, R. H. A.
On the nature of fowl plague virus 796
MILNE, F. J.
A new retractor-director 22
MILLS, H. D.
Obstructed cheek-pouch in a monkey, with a note on the technique of intravenous injection in monkeys 356
MINETT, F. C.
Panting in cattle 309
MITCHELL, P. J.
R.C.V.S. Council election 376
MONTGOMERIE, R. F.
The occurrence of *Hepatitis contagiosa canis* (Rubarth) in Great Britain 113
MORGAN, A. T.
"Diseases of the stomach of the adult ruminant" (Opening discussion, Cardiff Congress, 1950) 803
MOSS, ARTHUR W.
Departmental Committee on Export and Slaughter of Horses 218
MUNRO, I. B.
Collection of accurate data on the incidence of disease ... 218
NAGUIB, M.
Transmission of tuberculosis to chicks through eggs of tuberculous hens 813
NAISMITH, R. S.
A review of 50 cases of rumenotomy 581
NISBET, D. I.
Enzootic abortion in ewes. 1.—Transmission of the disease 251
NICOL, J.
Toxic reactions following the use of phenamadine (May & Baker) in the dog. Part II 533
NICHOLSON, C.
Collection of accurate data on the incidence of disease 218
NOBLE, W. A.
The treatment of bowel oedema in pigs 544
NORVAL, J.
The isolation of *Salmonella typhi-murium* from the carcase of a bullock submitted for meat inspection ... 291
NYE, SIDNEY S.
Even areas of uterine necrosis following parturition in the bitch 118
Intestinal adhesions to the uterine stump 588
Pregnancy following caesarean section in a cow 770
Toxic reactions following the use of phenamidine (May and Baker) in the dog 533

PAGE

OGILVIE, D. D.
Mastitis medication in relation to animal health 360
"ONLOOKER"
The report of proceedings under the Diseases of Animals Acts, 1938-47 126
O'MOORE, L. B.
Cobalt therapy in pregnancy toxaemia in ewes 178
ORMROD, A. NOEL
Fatal ingestion of tin-tacks by chimpanzee 408
ORR, DAVID E.
Cysticercus bovis 587
OSBORNE, A. D.
Cobalt deficiency in Herefordshire and Worcestershire ... 72
PARKINSON, J. D.
Official work: A Ministry requirement 736
PARRY, H. B.
"Anavenol." A short-acting anaesthetic for the horse ... 550
An improved form of "Anavenol": "Anavenol"-K—The combination of β-naphthoxyethanol with thialbarbituric ("Kemithal") acid 505
β-naphthoxyethanol suspensions ("Anavenol"): A short-acting anaesthetic for the horse 500
Viral hepatitis of dogs (Rubarth's disease): 1.—Clinical and pathological observations on a spontaneous epidemic 559
PATTERSON, J. B. E.
Cobalt deficiency in Herefordshire and Worcestershire ... 72
PAY, T. W. F.
Infectious canine hepatitis (*Hepatitis contagiosa canis* (Rubarth)) 551
PEARSON, J. K. L.
The use of penicillin in the prevention of *C. pyogenes* infection of the non-lactating udder 166
PEATT, E. S. W.
The examination of horses for soundness (Demonstration, Cardiff Congress, 1950) 674
War-time experiences with the R.A.V.C. and remarks on some of the diseases encountered 591
PEARSON, R. G.
Undulant fever 66
PEELE, J. D.
Electrocution at low voltage 54
PHILLIPS, R.
Bovine infertility. Bovine fertility levels as ascertained from the statistics of annual production 190
PICKERING, J. P.
The diagnosis of pregnancy in bovines 50
PICKUP, J.
"Anavenol": A short-acting anaesthetic for the horse 526
PIERCE, A. E.
Diagnosis, epidemiology and control of trichomoniasis ... 190
The host-parasite relationship between the female bovine and *Trichomonas foetus* 541
PITCHER, L.
Attestation: Is it a good policy? 65, 249, 322, 388, 416, 463, 570
Scheme for the eradication of *Str. agalactiae* infection from dairy herds 736
POLGE, C.
Storage of bull spermatozoa at low temperatures ... 115
POWLEY, J. O.
Oedema disease of swine 848
PRIESTLEY, H.
Cysticercus bovis 569
PURCHASE, H. S.
"Hetrazan" in the treatment of *Dirofilaria immitis* (Leidy, 1856) 34
RAILTON, J. P.
Tuberculin testing of pigs 334
RAINEY, J. W.
Attestation: Is it a good policy? 282, 388, 492
RAYMER, MARY
Central Library for Animal Diseases 224
RAZZA, FAUSTO
An outbreak of Borna disease in Tripolitania 4
REYNOLDS, PAMELA M.
Anastomosis of the intestine in the dog 310
RICKARDS, D. A.
"Roaring" in cattle 98
ROACH, R. W.
New Zealand Veterinary Club Practice appointments ... 310
ROBERTS, R. S.
Stilboestrol implantation in cockerels 44

PAGE

ROBERTSON, J.
The influence of the attested herd scheme on the local incidence and degree of tuberculosis in slaughtered cows and calves ... 127
ROBINSON, P.
Herd control of mastitis ... 821
ROBSON, J.
Hydrocyanic acid in pasture plants ... 1
Penicillin in the treatment of tetanus in a horse ... 345
ROLLINSON, D. H. L.
A case of bilateral testicular hypoplasia in the goat ... 303
Deaths in young ducklings associated with infestations of the nasal cavity with leeches ... 225
Mullerian duct remnants in the bull ... 107
Reproductive failure in the bull—its diagnosis and prognosis ... 527
ROWLANDS, W. T.
"Breid" and the complexity of its nature (Presented to Cardiff Congress, 1950) ... 777
Investigation of further cases of polyarthritis in lambs following serum inoculation ... 213
ROWSON, L. E. A.
Infertility in a bull in service at an artificial insemination centre ... 190
Superovulation in the cow ... 322

SAUNDERS, LEON Z.
Infectious canine hepatitis ... 633
SCHWABACHER, E. N.
The use of an antihistamine drug in a case of tympany ... 711
SCOTT, WALTER
The importance to the community of the control of animal diseases inimical to man. Part I ... 515
SCOTT, HOGARTH W.
The dehorning of cattle (adult) ... 447
SELLERS, K. C.
Aphosphorosis in young cows in East Anglia ... 343
Leptospira icterohaemorrhagiae infection in the calf ... 311
Swayback in a folded flock of sheep ... 134
SHANKS, P. L.
"Some pig diseases" (Opening discussion, Cardiff Congress, 1950) ... 743
Scouring in calves fed on milk from cows grazing new leys ... 315
Sulphamezathine in the treatment of enterotoxaemia in goats ... 101
SHAW, B. W.
Non-specific infertility ... 542
SHAW, G. K.
No foot, no horse ... 234, 340
SHAW, I. G.
The most prevalent form of infertility among dairy cattle in the Midlands to-day ... 190
SHEATHER, A. LESLIE
Some observations on Johne's disease ... 492
SHUTTLEWORTH, A. C.
Bone and joint injuries in the dog ... 365
SIMPSON, P. J.
Christmas gifts ... 696
SLOAN, J. E. N.
Carbon tetrachloride dosage in sheep. Some observations on possible chronic toxicity ... 380
SMITH, AUDREY U.
Storage of bull spermatozoa at low temperatures ... 115
SMITH, J.
"Factors influencing herd fertility in cattle" (Opening of discussion, Cardiff Congress, 1950) ... 665
SMITH, H. WILLIAMS
Cleaner food ... 736
SMYTHE, R. H.
"Deficiency diseases, particularly acetonaemia in cattle" (Opening of discussion, Cardiff Congress, 1950) ... 722
Some observations on Johne's disease ... 429
SOLIMAN, K. N.
Deaths in young ducklings associated with infestations of the nasal cavity with leeches ... 225
SOLTYS, M. A.
A case of *Clostridium haemolyticum* (*Cl. oedematiens D.*) infection in a cow ... 5
SOULSBY, E. J. L.
The isolation of *Salmonella typhi-murium* from the carcase of a bullock, submitted for meat inspection ... 291

SOUTHALL, J.
An outbreak of Borna disease in Tripolitania ... 4
SPEED, J. G.
A note on the history of British horses in the light of recent investigations ... 624
SPICER, ARNOLD
Christmas gifts ... 696
R.C.V.S. Council election ... 38
SPREULL, J. S. A.
Regional anaesthesia in small animals (Demonstration, Cardiff Congress, 1950) ... 676
SPRIGGS, D. N.
Diagnosis of pregnancy in bovines ... 136
STABLEFORTH, A. W.
Bovine infertility (bacteriological aspects) ... 187
Bovine mastitis, with particular regard to eradication of *Str. agalactiae* ... 219
STAMP, J. T.
Abortion of sheep (Presented to Cardiff Congress, 1950) 778
Enzootic abortion in ewes. Transmission of the disease ... 251
Tick-borne fever as a cause of abortion in sheep ... 465
STANNARD, A. L.
Distaquaine (procaine penicillin G) suspension: blood levels in cattle ... 579
STARTUP, C. M.
A case of bowel resection in the dog ... 482
Intestinal adhesions to the uterine stump ... 633
STEELE-BODGER, H. W.
Book-keeping and accountancy in relation to a veterinary practice ... 104
"Factors influencing herd fertility in cattle" (Opening of discussion, Cardiff Congress, 1950) ... 667
STEWARD, J. S.
Notes on some parasites of camels (*Camelus dromedarius*) in the Sudan ... 835
Tuberculosis of the udder ... 298
Trichostrongylosis and haemonchosis in the camel: their recognition and response to phenothiazine ... 837
STEWART, C. M.
Panting in cattle ... 280, 339
—— —— —— and dry coat in horses ... 350
STEWART, D. L.
Artificial insemination of cattle: A review of the work of the Reading Cattle Breeding Centre, October 1st, 1944, to September 30th, 1948 ... 389
The effect of reducing the quantity of egg yolk in bovine semen diluents ... 617
STEWART, S. G.
Attestation: Is it a good policy? ... 339
STEWART W. LYLE
Cerebellar atrophy in lambs (daft lambs) ... 299
TAYLOR, E. L.
Verminous parasites and veterinary practice ... 613
TAYLOR, J. C.
Penicillin in the control of swine erysipelas ... 38
TAYLER, R. C.
Some applications of vitamin A therapy in mixed practice 32
TAYLOR, J. C.
No foot—no horse ... 376
TAZEWELL, E. R.
Dehorning of cattle ... 325
THOMSON, D. M.
Infertility from the point of view of an officer in charge of an artificial insemination centre ... 541
Some notes on the management of bulls in relation to semen production—based on observations and experiments made at the Ruthin Cattle Breeding Centre ... 480
THORNTON, HORACE
Torsion of the liver in sows ... 716
TIMONEY, J. F.
Experimental reproduction of oedema disease of swine 198
"Oedema disease of swine" (Contribution in opening discussion on paper "Some pig diseases," presented to the Cardiff Congress, 1950) ... 748
TOWERS, K. G.
Acorn poisoning in heifers ... 74
TREACY, T.
An old disease in a new role ... 387
TREANOR, G. A.
Cobalt deficiency in Herefordshire and Worcestershire ... 72
TRUETA, J.
Modern advances in wound treatment ... 450

PAGE

TURNER, PATRICIA J.
Successful repair of abdominal rupture using the vastus internus muscle ... 730
TUTT, J. F. D.
Attestation: Is it a good policy? ... 309, 360
Hypnotic for clipping the nervous horse ... 178
Official work: A Ministry requirement ... 634, 770
R.C.V.S. Council election ... 388
TWEED, W.
Electrocution at low voltage ... 178

ULLRICH, K.
Some German experiences in the treatment of the nervous forms of canine distemper ... 235

VAUGHAN, L. C.
Chloral hydrate narcosis in the bovine (Demonstration, Cardiff Congress, 1950) ... 676
Regional anaesthesia in the bovine (Demonstration, Cardiff Congress, 1950) ... 676
VENN, J. A. J.
Conditions associated with hypocupraemia of bovines in East Anglia ... 756
VINTER, F. JEAN
Care and management of laboratory animals ... 696

WADDINGTON, F. G.
Thiopentone as an anaesthetic in the horse ... 100
WARE, SIR FRANK
Panting in cattle ... 298
WATT, J. A. A.
Enzootic abortion in ewes. Transmission of the disease ... 251
Tick-borne fever as a cause of abortion in sheep ... 465
WATSON, H. C.
Immunisation against rinderpest by lapinised virus ... 519
WATTS, P. S.
Attestation: meat condemnation in terms of rations ... 140
The influence of the attested herd scheme on the local incidence and degree of tuberculosis in slaughtered cows and calves ... 127
WEIR, J.
Tuberculosis of the udder and its differential diagnosis ... 239
WHITE, MARJORY B.
Variations in the bactericidal and bacteriostatic properties of milk ... 27
WHITEFORD, W. A.
The case for direct injection of penicillin into the udder 103
WILDE, J. K. H.
Penicillin in the treatment of tetanus in a horse ... 345
WILKINSON, EDWARD
The dehorning of adult cattle ... 447

PAGE

WILLIAMS, AMPHLETT
The identification of horse-flesh ... 20
WILLIAMS, R. E.
Intestinal adhesions to the uterine stump ... 60
WILLIAMSON, THOMAS F.
Herd control of mastitis ... 82
WILSON, J. B.
The treatment of retained placenta and septic metritis of the bovine ... 62
WILSON, J. E.
Moniliasis in turkeys in Great Britain ... 2
Newcastle disease in a gannet (*Sula bassana*): A preliminary note ... 3
Sulpha drug treatment for caecal coccidiosis ... 51
The isolation of *Salmonella typhi-murium* from the carcase of a bullock submitted for meat inspection ... 29
The occurrence of *S. typhi-murium* in hen eggs and its implications ... 44
WILSON, J. P.
Overseas mail: Vacancies and "The period of application" 23
WILSON, S. G.
A preliminary note on resistance to treatment as shown by a strain of *T. congolense* in the Bukomero District of Uganda ... 70
WILSON, W. R.
The effect of reducing the quantity of egg yolk in bovine semen diluents ... 61
The occurrence of *Vibrio foetus* in aborted material derived from cows inoculated with S. 19 *Br. abortus* vaccine ... 58
WILSDON, A. J.
Attestation: Is it a good policy? ... 49
WOOD, C. R.
General anaesthesia in small animals, and a method of positive pressure ventilation of the lungs (Demonstration, Cardiff Congress, 1950) ... 67
WOODROW, C. E.
Hard pad disease ... 11
Illness in huskies ... 1
WOOLDRIDGE, G. H.
Homoeopathy in the veterinary field ... 49
WRIGHT, A. J.
"Strain 19 and the control of brucellosis" (Opening of discussion, Cardiff Congress, 1950) ... 83
WRIGHT, J. G.
The treatment of rectal prolapse by submucous resection: A record of five cases in the horse, ox and pig ... 33

ZWEIG, J.
The persistence of penicillin in milk ... 5

PRINTED IN GREAT BRITAIN AND PUBLISHED FOR THE PROPRIETORS BY H. R. GRUBB, LTD., CROYDON

PAGE
... 20
... 60
... 82
of
... 62
... 2
re-
... 3
... 51
ar-
... 29
its
... 44
on" 23
by
of
... 70
ine
... 61
rial
tus
... 58
... 49
of
ra-
... 67
... 11
... 1
... 49
of
... 83
on :
... 33
... 5